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FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1768.—Vol. XXXIX.

LONDON, SATURDAY, JULY 10, 1869.

(SUPPLEMENT) {STAMPED ... SIXPENCE, UNSTAMPED ... FIVEPENCE

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 1842.)

Mr. CROFTS transacts business in the way of PURCHASE OF SALE of every description of stocks, but particularly BRITISH MINES, at net prices. All orders meet with the utmost punctuality, and advice given as to the nature and eligibility of INVESTMENTS when required.

GREAT ROYALTON.—These shares are specially recommended at the present price, as they must very cansiderably rise in the course of a few months. It is opening out wonderfully, and will, undoubtedly, be a great mine.

MR. W. H. BUMPUS, STOCK AND SHAREDEALER, following SHARES, free of commission:—
35 Anglo-Argent., 21s.
10 Anglo-Brazilian, 11s.
15 Chiverton, £93/5.
10 Chiverton Moor, £3.
25 Gen. Brazilian, 13s.
35 Don Pedro, £4/4.
25 East Lovell, £15.
25 East Greville, £4 3 9
26 E. Carn Brea, 10s. 6d.
26 E. Carn Brea, 10s. 6d.
27 Frank Mills, £4/4.
28 Frank Mills, £4/4.
29 Pestarena, £1/4.
20 Pertarena, £1/4.
20 Pestarena, £1/4.
21 WM ARD DATE.

R. WILLIAM WARD, 95, BISHOPSGATE STREET WITHIN, LONDON, E.C.

MR. THOMAS SPARGO, STOCK AND SHAREDEALER, 224 AND 225, GRESHAM HOUSE. OLD BROAD STREET, LONDON, E.C.

JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Bankers: London and Westminster, Lothbury.

MR. Y. CHRISTIAN, STOCK AND SHAREDEALER,
11, ROYAL EXCHANGE, E.C,
Bankers: Bank of England.

MR. G. D. SANDY, STOCK AND SHAREDEALER,
48, THREADNEEDLE STREET, LONDON, E.C.
Daily Price List on application post free. References exchanged.

MR. F. W. MANSELL, STOCK AND SHAREDEALER, 1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C. Bankers: London Joint-Stock Bank.

R. WILLIAM SEWARD, STOCK AND MINING SHARE BROKER, 19, THROGMORTON STREET, LONDON, E.C. rery description of shares BOUGHT and SOLD at the best market prices.

MR. J. H. COCK, STOCK AND MINING SHAREDEALER,
74, OLD BROAD STREET, LONDON, E.C.
Fifteen years' experience in Cornwall and London.
Business transacted in all the leading mines, and those difficult of purchase or sale negociated.
SPECIAL in Van Consols, Fron Fawnog, New Lovell, South Condurrow, Ding Dong, and North Levant.

MATTHEW GREENE, STOCK AND SHAREDEALER, 14, PINNER'S HALL, OLD BROAD STREET, LONDON, E.C. Bankers: Bank of England.

SPECIAL.

MATTHEW GREENE has been conducting mining operations in the "Van District" for some years past, and is well acquainted with all the mines in the neighbourhood. Every information can be had concerning the "Van Mine, Van Consols, East Van, Aberdaunant, and South Van." Intending investors will do well to consuit M. G. before embarking in any of the many mines which are being offered at fabulous prices, which are certainly highly speculative, as no mining work has been done, or any preparations made for working them. Large sums of money are being made in this district, and without proper caution and good advice, large sums of money will be lost.

M. R. T. ROSEWARNE, 81, OLD BROAD STREET, LONDON, E.C.
T. R. has BUSINESS in the following mines, at close market prices:
Bedford Consols. East Geraville.
Bedford United. East Caradon. Prince of Wales.
Don Pedro. Frontine and Bolivia. Perince of Wales.
T. R. is in a position to give bona fide advice respecting the principal Welsh mines now in full work, also upon some important untried setts, having been twice well over the district of Liandidoes, Aberystwith, and vicinity within the past few weeks: parties will do well, therefore, to consult one practically capable of giving advice before embarking their capital.
There are several good mines in Cornwall worthy of attention at the present low prices, as there can be no doubt but what they will ere long have a great rise in market value.
T. R. is a BUYER of Caldbeck Fell shares.
T. R. has SPECIAL BUSINESS in the following mines—Holmbush and Kelly Bray United, Liandidoes Lead Mine, Van, Van Consols, Bronfloyd, Tygwyn, and Caldbeck Fells.
Money advanced to any extent on good mining shares.
Office hours Ten to Four.
Bankers: Bank of England.

| MR. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 15 years), has POR SALE the FOLLOWING SHARES, at net prices: 5- 60 Van Consols, 6s. 3d. 10 Chiverton, £3 lis. 3d. 25 New Lovel, 34s. 6d. 30 North Crofty, 14s. 6d. 30 North Crofty, 14s. 6d. 30 North Crofty, 14s. 6d. 40 North Crofty, 14s

M. 4. ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established No. 4. ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 10 Van, 37½; 65 Van Consols; 40 Prince of Wales, 21s. 9d.; 70 Holmbush and Kelly Bray, £4; 35 Drake Walls, 17s. 6d.; 30 Penhall, 645; 2 West Chiverton, £47½; 40 East Carn Brea, 11s.; 89 Wheal Agar; 50 West Maria and Fortescue, 15s. 60; 30 Pedhan-drea, 31. 18s. 9d.; 65 West Basset, 18s. 9d.; 70 Maudlin, 23s. 6d.; 25 Spearne Moor; 3 Minera, £187½; 100 Okel Tor; 5 Trumpet Consols; 30 Great South Chiverton; 60 Crebor, 5s. 6d.; 10 Wheal Kitty (St. Agnes); 20 Alamillos, £13½; 100 Anglo-Brazilian, 11s.; 25 Don Pedro, £3 11s. 6d. prem.; 25 Linares, £2. 18s. 9d.; 200 General Brazilian, 4s. 3d. prem.; 250 Sao Vicente; 10 Taquaril, 2s. 9d. prem.; 25 United Mexican, £3½; 40 Chontailes, £1 8s. 6d. SPECIAL BUSINESS in Van, Great Rock, and Van Consols.

ORNISH AND FOREIGN MINES.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, July 9, No. 540, Vol. XI., price 6d. each copy, forwarded on application, contains information in the following mines:—

Great North Lawrence Great North Lawrence Control North Lawrence Contr

Great Rock.
Great Western Mines.
Great Wheal Vor.
East Wheal Lovell.
North Wheal Crofty.
East New Lovell.
North Wheal Crofty.
East New Lovell.
With a Leading Article on the Tin Trade and Tin Mines, Statistical Account of the Providence United Mines and West Wheal Seton, List of Mine Dividends paid in June, &c.

THE LONDON DAILY RECORD—STOCK AND SHARE LIST—STOCK EXCHANGE SECURITIES. Published every evening at 5 o'clock. It contains the latest prices of railways, banks, mines, foreign stocks and bonds, financial, insurance, and miscellaneous shares, remarks on the daily rise and fall in prices, with advice as to purchase and sales. Annual subscription, £1 is.; by post, £2 5s.; monthly subscription—by post, 4s.; single copy, 1d.; by nost, £4.

by post, 2d. PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London.

INVESTMENT OR SPECULATION.—A SELECTED LIST OF RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN GOVERNMENT BONDS, &c., forwarded to bona fide investors on application, in addition to the high rate of interest many of the above are paying, there is now every probability of a great rise in market value.

now every probability or a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER,

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(threedoors only from Hercules-passage, entrance to the Stock Exchange).

Twenty-four years' experience.

(Two in Cornwall and Twenty-two in London.)

Bankers: The Alliance Bank, and the Union Bank of London.

References given and required (when necessary) in all the principal towns of the United Kingdom.

R. E D W A R D C O O K E,
STOCK AND MINING SHAREDEALER, 76, OLD BROAD STREET
(and Mining Exchange), LONDON, E.C.

Is a SELLER or BUYER of Shares in the Van Mine, Great Rock, and Van
Consols at close price. Information on these mines afforded on application.
Shares in all dividend and best progressive mines dealt in.
WEST CHYERTON shares, as an investment, are good to buy. At current
price they will pay 16 to 18 per cent, per annum.
E. Cooke has been in Wales during the week, and will be happy to give information respecting Welsh mines.

References given.
Price-list sent free on application.
Bankers: Alliance Bank.

W . H . C U No. 42, CORNHILL, LONDON, E.C.

MR. HENRY MANSELL, STOCK AND SHAREDEALER, 1, PINNER'S COURT, OLD BROAD STREET, LONDON.

MR. J. B. REYNOLDS, 70, BISHOPSGATE STREET WITHIN, LONDON, E.C., MR. JOHN MOSS, STOCK AND SHAREDEALER, ST. MICHAEL'S CHAMBERS, 42, CORNHILL, E.C. Business as BUYER or SELLER in Frontino, Chontales, Don Pedro, General Brazilian, and Taquaril Gold shares. Bankers: City Bank, Finch-lane, E.C.

BARTLETT AND CHAPMAN'S "INVESTMENT CIRCULAR

AND FINANCIAL RECORD.

AND FINANCIAL RECORD.

(Published on the first Wednesday in each month)

Comprises—A Comparison of the Safety and Profit of English and Foreign

Loans, a Comprehensive Review of the Stock, Share, and Money Markets for the

preceding month; an Enumeration and Comparison of the Whole Circle of In
vestments; and Valuable Suggestions for Purchase or Sale.

GREAT SOUTH CHIVERTON MINE.

GREAT SOUTH CHIVERTON MINE.

We have for the past two years drawn particular attention to this mine, and have strongly advocated the purchase of shares. Those who acted upon our advice will now reap the profit, and, as the prospects are rapidly improving, we with equal confidence recommend their immediate purchase. The shares must further and considerably advance in value, as the lode in the rise above the 50 produces 1½ ton of lead per fathom, and the 50 end 1½ ton per fathom. Splendid piles of lead are being raised, which will soon be got ready for the market. No time should be lost in the purchase of shares.

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BUYER OF SELLER of every description of negociable securities at current market prices net.

market prices net.

Mr. Powble is a position to deal at close prices in the principal gold shares.

WANTED,—An OFFER for 100 St. Just Amalgamated.

SPECIAL BUSINESS in Brynpostig, Mid-Wales, Holmbush and Kelly Bray

United, Prince of Wales, Great Vor, North Treskerby, Van, Van Consols, and

Caldbeck Fells.

References exchanged.

July 9, 1869.

Bankers: City Bank, Finch-lane.

M. B. E. J. BARTLETT, STOCK AND SHAREDEALER,
No. 30, GREAT ST. HELEN'S, LONDON, E.C.
SPECIAL BUSINESS in South Merllyn, West Godolphin, North Treskerby,
Bryn Gwiog, Frank Mills, West Caradon, Great South Chiverton, Taquaril
Gold, Don Pedro, and South Condurrow shares.
Selected list of mine shares for investment or speculation forwarded upon

BUYER of 100 South Merllyn shares. M.R. HENRY MORDAUNT, STOCK AND SHAREDEALER, 20, THREADNEEDLE STREET, having had many years' experience in the market is PREPARED to ADVISE and DEAL in all Mining, Miscellaneous, and Stock Exchange Securities, at the lowest market prices. The following are worth immediate attention:—Prince of Wales, 21s. to 23s.; East Rosewarne, 7s. 6d. to 10s.; Hingston Down, 8s. to 10s.; Wheal Grenville, 45s. to 47s. 6d.; Chontales, 27s. 6d. to 28s. 9d.

WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN, LONDON, E.C., DEALS in all STOCKS AND SHARES either for cash or the fortnightly settlement.
W. T. is always in a position to do business in the Brazilian Gold Mines.
W. T. has SPECIAL BUSINESS in Taquaril Gold Mine (7s. 6d. and 10s. pald) shares, which he confidently recommends to his clients as a first-class investment; the latter are not likely to have any further calls.
W. T. still recommends his clients to purchase shares in the Van Mine, which are still much below their real value. are still much below their real valu

Bankers: The Alliance Bank. M. EDWARD BREWIS, STOCK AND SHAREDEALER, No. 34, OLD BROAD STREET, LONDON, E.C.
Business transacted for cash or account in every description of tin, lead, copper, and iron mining shares.

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Bankers: The Alliance Bank, London, E.C.

MR. THOMAS

MR. THOMAS THOMPSON, MINING OFFICES,
Mr. THOMPSON REOLD JEWRY CHAMBERS, LONDON, E.C.
Mr. THOMPSON recommends the purchase of Holmbush and Kelly Bray United and Royalton Mines.
The success which has attended the Van Mine naturally attracts attention to the district. Mr. THOMPSON is in a posttlen to give reliable information as to the new mines now being brought forward in this neighbourhood.

INVESTMENT,—MESSRS. TREDINNICK AND CO. are instructed to OFFER FOR SALE ONE MOIETY of a COPPER MINE of great promise—say, 10-20ths—at £200 cach; 10 per cent. payable on application, 40 per cent. on approval of the applicant, and 50 per cent, at the expiration of three months. As this is a rare opportunity for profitable and bona fide inv stment, none need apply who prefer market gambling in shares to substantial gains and dividends from legitimate mining.

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Lead Mining in the counties of Cardigan and Mongomery has lately been very successful, and likely to continue so. Mr. T. P. Thomas having a thorough knowledge of these districts is at all times prepared to make selections for investors.

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A PRACTICAL EXPOSITION OF THE

PRINCIPAL MINES and MINING DISTRICTS OF CORNWALL and DEVON.

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L A N Y M R. н. (Late of Kennall Gunpowder Company) GUNPOWDER MERCHANT,

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Apply to JAMES IRVING, Sharebroker, Carlisle. FOR SALE, AT DUNDYVAN IRON WORKS, COATBRIDGE, A BLOWING ENGINE, by Murdoch and Aitken, in fine condition, diameter of blowing cylinder 108 in., diameter of steam cylinder 541/2 in., 10 ft. stroke.—Apply to EASTON, HARRISON, and Co., at the Works.

Also, ENGINE HOUSE and BOILERS, if wanted.

BLAST ENGINE FOR SALE.—An EXCELLENT, WELL MADE, NEW HORIZONTAL ENGINE; steam cylinder, 36 in. 7 ft. 2 in. stroke; air cylinder, 6 ft. 9 in. diameter; fly wheel, 18 ft. 2 in. diameter, with all fittings complete.

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Further particulars from "U. S.," care of Editor, Mining Journal Office,
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IRON TESTING MACHINES FOR SALE.—
ONE of RCBINSON and COTTAM'S, to test up to 1½ in. area, equal to new; and ONE more powerful, made by MESSRS. PETO, BRASSEY, and BETTS, quite new, and complete, with weights, &c.
Apply to "W,," care of Editor, MINING JOURNAL Office, 26, Fleet-street, London, E.C.

PUMPING-ENGINE.—WANTED, a good SECONDHAND ENGINE, of about 50 inches cylinder, and (say) 9 feet stroke, with ONE BOILER.

Bollier. Particulars, with price, makers' name, &c., to be addressed Mr. S. Richards, Crosby House, 95, Bisnopsgate-street Within, London.

WATER-WHEEL.—WANTED TO PURCHASE FOR THE VAN CONSOLS MINE, MONTGOMERYSHIRE, A FIRST-CLASS WATER-WHEEL, about 50 ft. diameter, and about 6 ft. breast; also, 250 fms. of FLAT-RODS, and 50 to 6 fms. of 10 in. or 12 in. PUMPS.
Particulars to be sent to MATTHEW GREENE, Secretary, Van Consols Mining Company, 14, Pinner's Hall, Old Broad-street, London.

DEVON C O P P E R

OKEHAMPION.

NOTICE TO CREDITORS.

ALL PERSONS having any CLAIMS or DEMANDS against the adventurers in the above Mine are requested to SEND PARTICULARS of the same to the undersigned, on or before SATURDAY, the 17th inst., that the same may be EXAMINED and DISCHARGED, and all claims not then received will not be paid.

Detect the 6th day of July, 1869.

Detect the 6th day of July, 1869. Dated the 6th day of July, 1869.

THE AUSTRALIAN MINING COMPANY.
Incorporated under Royal Charter.
Notice is hereby given, that the TWENTY-FOURTH ANNUAL GENERAL
MEETING of the shareholders of this company will be HELD at the London
Tavern, Bishopsgate-street, E.C., on MONDAY, the 26th inst., at One o' clock F.M.
precisely, to receive the report, accounts, and balance-sheet for the past year;
to elect directors in lieu of Henry Collier, Esq., and ilenry R. Wotton, Esq., who
retire by rotation; to fix the remuneration of the auditors for the past year;
and to elect auditors for the present year.

GEORGE PALMER, Chairman.
No. 1, Coleman-street-buildings, Moorgate-street, London, E.C., July 7, 1869.

R. H. D. HOSKOLD,
MINING ENGINEER,
LAND AND MINERAL SURVEYOR
CINDERFORD, NEWNHAM.

Gentlemen requiring reliable and correct information respecting any Coalor Iron Mine Property in the Forest of Dean may obtain it on application. Surveys, Plans, Reports, and Valuations on the usual moderate terms.

M R. P. S. HAMILT ON,
MINING AND REAL ESTATE AGENT,
AND PRACTICAL GEOLOGIST,
OFFICE,—No. 72, GRANVILLE STREET, HALIFAX, NOVA SCOTIA.

N.B.—Sales and purchases of lands, quarries, and mining property negotiated upon the most advantageous terms, and with all possible dispatch. Explorations made or supervised, and reports prepared where required with the atmost sare. Public attention is called to the fact that, owing to his experience as Gold Commissioner and Chief Commissioner of Mines, and as one who has been for years engaged in practical mining and geological explorations, Mr. HANILTON has had opportunities which no other person has heretofore possessed of becoming intimately acquainted with the mineral resources of Nova Scotia.

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LEAD MINES AS AN INVESTMENT. Now ready, by J. H. MURCHISON, Esq., F.R.G.S., THE SECOND EDITION OF

THE SECOND EDITION OF

THE "LEAD MINES OF CARDIGANSHIRE AND MONTGOMERYSHIRE," districts comprising (VAX) DYSIFFE, LISBURNE, EAST DARREN, SOUTH DARMEN, CEFN BRWYNO, and other important Mines. With a MAP, showing the position of the different Mines; arranged and drawn specially for this Pamphlet.

This edition is revised, with additional remarks, and more mines, represented.

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M R. THOMAS THOM COPPER ORE WHARVES, SWANSEA. THOMAS,

M ESSRS, STUART AND CO., 93, BISHOPSGATE STREET, have Business as BUYERS or SELLERS at heat-market prices in Luc Phillips, Van, East Bottle Hill, East Carn Brea, West Godolphiu, Don Pedr East Providence, Prince of Wales, East Lovell, Frontino-antibluria, and Mar Ann. Frontino; these shares five weeks ago were 155. to 175. each whou wers commended them; now 24s. to 26s., or an advance of 59 per cent.

The Imperial Ottoman Mining Company

ESTABLISHED FOR WORKING THE CELEBRATED SILVER-LEAD DEPOSITS OF PELIDLI, Situate in Asiatic Turkey, between Scutari and Ismidt, within 28 miles of Constantinople, and eight days' journey from London. Incorporated under the Companies Acts, 1862 and 1867, which strictly limit the liability to the amount subscribed for by each shareholder.

CAPITAL £100,000, IN SHARES OF £1 EACH.

First issue, 70,000 shares, of which only 35,000 remain for allotment.

10s, per share to be paid on application, and 10s, on allotment.

The shares being fully paid on allotment, no further liability will be incurred, and share warrants to bearer will be issued. Should no allotment be made, the deposits will be returned without deduction or delay. DIRECTORS

JOHN DOWNES, Esq., 153, Upper Thames-street, E.C. Major HENRY JELF-SHARP. JOHN FRANCIS HOLCOMBE READ, Esq., 4, Austinfriars, E.C. JAMES ROBERTSON, Esq., 4, Angel-court, E.C. HENRY RUTTER, Esq., 4, Warrington-crescent, Hyde-park, W. GEORGE SIMONS, Esq., The Lindens, Beddington, Surrey.

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OFFICES,-No. 9, KING'S ARMS-YARD, MOORGATE STREET, LONDON, E.C.

This company has been formed for the purpose of acquiring and working, by the aid of modern machinery and mining appliances, the rich silver-lead ore deposits of Pelidli, situated in Asiatic Turkey, about 28 miles south of Constantinople, and within 9 miles of the shipping ports of Touzla, Eski-Hissar, and Deridja, in the Gulf of Ismidt, where the ores can be shipped at all seasons of the year. The cost of transit to these ports, as stated in the reports of the made for any number of tons the mines may produce.

The Pelidli property, through which runs a continuous stream of water, is very extensive, being nearly two miles long on the course of the lodes or veins, and about ½ mile wide (see reports herewith). It is held under a firman or concession from the Imperial Ottoman Government, dated 9th July, 1864, which has, under the provisions of the new Mining Laws of the Empire, been extended by the Imperial Council of Mines for a term of 99 years from the 9th of June, 1869. The grant confers the right of working for silver, lead, copper, and zinc, at the very small royalty of 2 per cent. on the ores raised. The right of felling timber for use of the mines has been granted. The grant also embraces an extensive additional area adjoining Pelidli, ideated the favourable position of the public as a bona fide investigating Isometak for any further issue that may ultimately be required. This undertaking is introduced to the public as a bona fide investigating provata for any further issue that may ultimately be required. This undertaking is introduced to the public as a bona fide investigating from the high standing and practical experience of the several mining engineers, whose reports are appended, the large quantity of ore already discovered, the favourable position of the every limiting engineers, whose reports are appended, the large quantity of ore already discovered, the favourable position of the every limiting engineers, whose reports are appended, the large quantity of ore already discovered, the favourable po

grant also embraces an extensive additional area adjoining Pelidli, of 6000 denums, or about 420 acres, upon the same favourable terms.

It will be seen by the reports of the mining engineers who have visited the mines that the several lodes or veins which traverse the property are of unusual size and richness, embedded in a limestone formation of the best description for the production of large deposits of silver-lead ore. The main lode has been cut into about 9 ft. carrying rich silver-lead ore throughout and is proposed by 9 ft., carrying rich silver-lead ore throughout, and is pronounced by them to be one of the largest and richest silver-lead lodes ever disco-

them to be one of the largest and richest silver-lead lodes ever discovered at so shallow a depth (only 15 fms. from surface); and, in addition to this large lode, there are others, the outcrops of which present indications of equal, if not superior, richness.

A large amount of capital has been spent upon the property in making roads and water-courses, in the erection of ore dressing-house, counting-house, and several houses for the accommodation of a large staff of miners; the sinking an engine-shaft from surface 15 fms., driving a 10 fm. level north about 12 fms. and south about 13 fms., and cutting through the deposit of silver-lead ore, which is proved to be of excellent quality. From the very limited extent of ground opened Mr. Fischbach, an experienced German mining engineer (who had charge of the works), estimated the ore discovered at 10,000 tons, from which 16 miners could raise 240 tons per month, sufficient to give a very handsome return upon the whole ground opened Mr. Fischbach, an experienced German mining engineer (who had charge of the works), estimated the ore discovered at 10,000 tons, from which 16 miners could raise 240 tons per month, sufficient to give a very handsome return upon the whole capital of the company. There is no doubt, after the erection of the necessary machinery, the shaft sunk, deeper levels opened, and the workings carried out upon a proper scale, the yield from one lode alone would reach, if not exceed, 1000 tons per month. Calculations based upon results already obtained show a profit varying from £5 to £10 per ton, according to the quantity of silver the ore contains; so that on a yield of 1000 tons per month even the minimum of £5 would give a profit of £60,000 per annum, thus surpassing the richest silver-lead mines of Great Britain.

Mining undertakings are usually attended with great risk and uncertainty, large sums being invariably laid out in seeking for ore, an operation generally extended over a period of several years; here the ores are already discovered in large quantities, and opened upon within 15 fms. of surface, where from 200 to 300 tons of ore per month can at once be raised for market, a most unusual result in any mine, either at home or abroad; large and continuous profits may, therefore, confidently be looked for within a period less than is usually occupied in conducting the preliminary explorations in most mining enterprises, and with an expenditure of capital exceedingly small compared with other mining operations.

The directors have received an offer from a responsible mining engineer, who has inspected the property, to contract for the delivery and erection of a pumping-engine and a winding-engine, with ore crusher complete; to erect engine-houses, boiler-houses, and other buildings; to put down the necessary pumping work and plant upon a scale equal to the requirements of the mines; to finish the machinery, buildings, and erections, and hand over the same in good working order within 12 months from the

the large profits to be secured.

In the first instance the directors have decided to limit the opera In the first instance the directors have decided to limit the operations of the company to the working of the mines upon an extensive scale, and shipping the ores to England; when the operations are extended, and the resources of the Pelidli property fully developed, it may be desirable to erect lead-smelting and silver-refining works, and to work the additional grant. Looking, therefore, to the future, the directors have decided upon fixing the nominal capital of the company at £100,000, in shares of £1 each, fully paid on allotment, but as the erection of the smelting-works, &c., will be deferred to a

Prospectuses and forms of applications for shares, together with copies of the reports of the several mining authorities, may be obtained from the bankers, solicitors, and at the offices of the company. Copies of the Articles of Association, and of the following documents, lie for inspection at the office of the company's solicitors. Firman under seal of the Sultan of Turkey, dated 1st September, 1864; four certificates under the hand and seal of Talant Bey, President of the Imperial Council of Mines, dated respectively 17th of August and 9th November, 1868, and 28th May, 1869, old style; indenture dated 28th May, 1869, made between Thomas Swan Carabet Davoudoglu and John Hornby; indenture dated 24th June, 1869, made between John Hornby and John Francis Holcombe Read on behalf of the company. behalf of the company.

The following are extracts from the reports of the several mining authorities who have inspected the property:—

Captain Thomas Richards writes—I can safely recommend this property to any parties who will lay out the necessary capital, being confident of successful and highly remunerative results, as this is unlike ordinary mining adventures, where large sums are almost invariably expended in sinking shafts and driving levels in search of ore. Here the ore is already discovered in large quantities, only 10 fms. from surface, and will be raised and prepared for market so soon as you can get the machinery to work. As I have before stated, this mineral vein is the largest and richest it has ever been my province to inspect at so shallow a depth. I look upon it as far beyond a mining speculation, and have every confidence in your realising great and permanent profits.

lising great and permanent profits.

Capt. JAMES POPE writes—I beg to say, after a careful inspection, I entertain the highest opinion of the mines; I have had 50 years' experience as a miner, and for 30 years the management of mines. I have inspected nearly every mine of consequence in Cornwall, and a great many in Devon, and in all my experience I have never had an opportunity of inspecting a mine so rich at so shallow a depth, or showing presents of permanence careful to this. These is not a solution of the state of the control of the state of the control of the cont or showing prospects of permanency equal to this. There is ore enough in sight to give good profits, and after opening the mines to a greater depth, I feel every confidence the profits will greatly in-This is not a speculation, but an investment of the first-class

a greater depth, I feel every confidence the profits will greatly increase. This is not a speculation, but an investment of the first-class, and the capital required is small compared with mining generally; you have only to erect the machinery and lay out dressing-floors, and work the mines in an energetic manner, to realise large profits.

Captain John VIVIAN writes—I must confess feeling surprised at finding such a lode; it is, without question, the largest and richest lode I have ever seen at so shallow a depth; and as it improves in quality and productiveness the deeper it is opened upon, it must, in my opinion, become a great and lasting mine, and I think I could with propriety guarantee to produce, from the ore already laid open, sufficient to give the proprietors from £800 to £1200 per month profit, and by pushing down the shaft and driving levels, there would be no difficulty in greatly increasing the profits. This would, of course, take time, but in less than two years from the commencement of the underground workings, it would be equal to, if not surpassing, the best mine in Cornwall. There are no works of magnitude to be carried out, and no great difficulties to be encountered. The ore is to be seen in the 10 fathom level and in the shaft, which does away with all risk, and there appears to be nothing wanting but a small capital to make this property all that can be desired. In conclusion, I beg to say my mining experience extends over a period of more than 40 years—for 10 years as a working miner, and for the last 30 years as an agent and manager of mines, and in all my experience I can confidently state I have no recollection of ever having inspected a mining property where so little has been done, presenting equal prospects of permanency and profit as the Pelidli Mines.

Mr. W. FISCHBACH writes—Extraction: In the shaft are to be seen two pillars of ore, of 20 metres in depth and 50 metres in length, of 1 and of 5 metres in breadth—that is to say, a mass of ore 6000 cubic metres, which contains abo

TREATING LEAD ORES .- Mr. PAUL EMILE DE WISSOCQ, of Rue Richepanse, Paris, has patented some improvements in treating lead ores. The invention consists—1. In converting lead ores into chloride by treating them with hydrochloric acid.—2. In dissolving the ride by treating them with hydrochloric acid.—2. In dissolving the chloride of lead in boiling water, and in putting the solution into contact with wrought or cast iron in the form of bars which decompose it, precipitating the lead in the metallic state, and forming chloride of fron, which remains in the solution in place of the chloride of lead.—3. In collecting the precipita of lead, and melting it in a furrace or in a pot, and casting it into pigs.—4. When the mineral contains silver, in treating with a boiling and concentrated solution of salt the residue which is left after all the chloride of lead has been dissolved. The solution of salt dissolves the chloride of lead has been dissolved, and by the addition of metallic copper the silver is precipitated.—5. In collecting for use the secondary products, which are sulphuretted hydrogen and chloride of fron. These operations are, Mr. Paul Emile de Wissocy observes, separately, well understood, but they have never been combined for the practical extraction of lead from minerals containing it. In conducting these operations the following apparatus is employed:—First, furnace, over which is placed a series of boilers, heated either directly by the fire, or better through a water bath. These boilers are connected with suitable pipes for filling them, for drawing off the contents, and for the escape of the sulphuretted hydrogen which is formed. The covers of the boilers should fit

gas-tight, and through each an axis passes, giving motion to agitators within the boiler; there is also a pipe for running in acid. The pipe through which the suiphuretted hydrogen escapes leads to a vessel in which the gas is washed. Second, another furnace is employed, and over it is placed a boiler in which is put water and chloride of lead. At the upper part of this boiler is an upward-flow filter, through which the solution of chloride of lead passes, and filters before entering a large wooden vat, in which are placed wooden cages, containing bars of cast or wrought iron for the precipitation of the lead. The chloride of lead is decomposed, the metal being deposited upon the bars, and an elevator placed at the end of the vat takes off the water from which the lead has been separated and takes fit into a reservoir, from which it returns whilst still hot into the boiler, where it is charged again with chloride of lead. From time to different oselioler, where it is charged again with chloride of lead. From time to different openings, by one of these two-thirds of the sulphuretted hydrogen cannot be used directly it is converted into sulphur in a large chamber or receiver, into which it is led by two different openings, by one of these two-thirds of the sulphuretted hydrogen produced enters, and by the other the remaining third, after it has been burut so as to transform it into sulphurus acid. A jet of steam facilitates the action of the acid gas upon the sulphurretted hydrogen a reaction which produces steam and sulphur, which is deposited in a fine powder.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for

LONDON GENERAL OMNIBUS COMPANY,-The traffic receipts for

Oniginal Connespondence.

THE SOUTH STAFFORDSHIRE AND SHROPSHIRE COAL FIELDS-No. V.

EVIDENCES OF DENUDATION IN AND AROUND THE SHROPSHIRE, SOUTH STAFFORDSHIRE, AND SOUTH WALES COAL FIELDS.

in thickness. It is worthy of remark that in the New Kemberton shaft the Brickman's measure is absent above the Rough-rock, and that a parting of 2 ft. separates the latter from 18 ft. of calamincar and rock of different colours, which would seem to indicate a rougher action of the waters of the period than is evidenced where these fine clays occur, and consequently a closer proximity to the trough of the estuary. It is equally remarkable, too, that although the fine sediments which form our brick and tile clays are here absent, and a coarser material substituted, the sulphur-coal, which is seen cropping out above on the face of the hill in both of the Coalbrookdale Company's clay works at Lightmoor, and which is found maintaining the same position either in one or more seams at Broseley, Stirchley, Dawley, Malinslee, and other places, is here found retaining its relative position above the rough rock, and beneath the next important rock in an ascending order, known as the Stinking coal rock. portant rock in an ascending order, known as the Stinking coal rock. The following is the description of rocks occurring from the Stinking rock to the surface, as given by Mr. Scott, in shafts along a line from north to south :-

Still the remarks he refers to hold good, in which it is said that the Permians, or red rocks hitherto considered as members of that division, come in one after the other, as the coal measures disappear, to fill up the valley of denudation. For whilst we get only attenuated lower or doubtful members of the Permians at Kemberton, we have from 400 to 500 feet of them in the next parish, about two miles south-east; whilst at Claverly and Enville we get 1500 ft, of them. In a line more direct east, scarcely a mile from the Kemberton pits, we find the lower soft, mottled red sandstone come in at the Hem Mill; and in the railway cutting east of Shiffnal, the next member of the bunter, the pebble beds or conglomorates are seen. The third subdivision, the upper mottled sandstone, occurs along the banks of the Worf, near Ryton, and the lower keuper, or water-stones, may be seen coming in above them at Beckbury, the next village.

There is no doubt about the upper coal measures occasionally pass-

may be seen coming in above them at Beckbury, the next village.

There is no doubt about the upper coal measures occasionally passing into the Permians, as instanced in the Mining Journal of June 26, but even the upper coal measures have been so denuded that, as shown in the article just referred to, the Permian rocks rest sometimes on one member of the carboniferous series and sometimes on another, whilst in not a few instances, the whole of the coal measures having been so entirely swept away, they rest on the Silurians.

We very much question whether further investigation will not show that there has been even a second era of denudation, and a third series of coal measures; for atpresent we are unable to correlate these younger members of the coal measures on the east and those on the west, at Linley, Tasley, Westbury, Lebotwood, Ardwick, near Manchester, and the upper division of the North Staffordshire coal field. In the latter field my friend Mr. Ward has succeeded in tracing that singular bed of limestone which accompanies the coal coal field. In the latter field my friend Mr. Ward has succeeded in tracing that singular bed of limestone which accompanies the coal seams above referred to, from Longton through Fenton to Shelton, and has also succeeded in finding the Spirobis Carbonarius, and other fossils which distinguish it, including some scales of fish. If we consider that these fragments of the younger coals are but indications of extensive mineral sheets once united and spread over the entire district indicated, the ravages committed by denudation are greater than we had denicted.

greater than we had depicted.

Mr. Hull has shown from his researches in connection with the Lancashire and Yorkshire coal fields that certain upheavings of the coal measures must have taken place along the Pendle range of hills anterior to the Permian period, that the whole of the upper, middle, and lower coal measures, amounting to 8400 ft., and some 1500 ft. of and lower cost measures, amounts to over the same range for millstone grit in addition, had been swept away prior to their deposition on the denuded edges of the millstone series. In other places, and along the same range, Mr. Hull speaks of the denudation of nearly 20,000 ft. of vertical strate, an amount of materials at the waste of which, he adds, one feels as much astonishment as at the gathering together of it. And if (as is most probable) this denuda-tion took place in the interval between the Carboniferous and Per-

tion took place in the interval between the Carboniferous and Permian periods, it cannot fail to impress us with the prodigious lapse of time, which is not represented by any known group of rocks.

Reflections such as these arise upon considering the vast extent to which the carboniferous series have suffered on the Shropshire, South Staffordshire, and South Wales sides of the old coal-producing area, for there seems really very little doubt of their having at one time been united. The entire country indicated has undoubtedly been modelled and sculptured into its present form by denudation; the action of such agencies may appear slow in comparison with the results accomplished, yet there is no reason for supposing that they action of such agencies may appear slow in comparison with the results accomplished, yet there is no reason for supposing that they were ever quicker in their action, or that they ever accomplished a larger amount of work in a given time. There is no reason, therefore for shrlinking from the assertion which your correspondent hopes might be but a flight of fancy—namely, that we have evidence of the ravages of denudation, even in connection with our coal fields, over hundreds of square miles.

Medical Like 5.

Madeley, July 5. [Probably the errors in names of places and words, unfamiliar to the compositor, to be found in your correspondent's letter, will by this time have suggested to him that those be complains of in mine might have arisen from a different cause to the one he assigned.]

COAL IN NORTHAMPTONSHIRE.

SIR,—The question whether the coal-bearing measures of the carboniferous period would be met with by sinking through the colites of Northamptonshire is one, doubtless, of great importance to the owners of property in that district, and would, if it could be answered affirmatively, soon lead to a material development of such mineral treasures. People who have never studied geology as a science look at the ascending series of strata, and infer that by sinking through the upper rocks when such appear at the surface, they shall find the older rocks lying seriatim, ignoring the fact proved by the most extensive evidence that some of the older measures have never been denosited at all and others have been entirely sweet away by the been deposited at all, and others have been entirely swept away by the mighty agency of denudation. As bearing on this subject, let me call attention to the following extract from the "Coal Fields of Great Britain," by Mr. Edward Hull, of the Geological Survey:—

ureat Britain," by Mr. Edward Hull, of the Geological Survey:—
"It has already been shown that the coal measures of England thin away, and ultimately die out, towards the South-Eastern Counties, and also that most of the region lying between Staffordshire, Warwickshire, and Leleestershire of the one hand, and the valley of the Thames and Channel on the other, was dry land during the period of the productive coal measures, and is, therefore, destitute of coal. So that if this district, stretching eastward to the sea, and southward to the Thames, were stripped of its covering of cretaceous, jurassic, and triassic rocks, we should, in all probability, find a bare tract of Cambrio-Silurian slates and perphyrics."

The ideal of the Cambrio Stafford Staff

rian slates and porphyries."

The italics are the authors. Mr. Hull is too scientific a geologist to hazard such an assertion as this without good evidence, and I would recommend the study of his little work to all those who are interested in this important question of the extension of our coal fields under the secondary rocks of the Midland Counties.

Dudley, July 5.

W. MADELEY.

Dudley, July 5.

GEOLOGICAL NOTES ON COAL-No. VII.

SIR,-The valuable products of coal are not exhausted by the enu-

SIR,—The valuable products of coal are not exhausted by the enumeration given in our last article. Another product has been obtained from gas-tar, called carbolic acid, which is noted for its antiseptic properties. We should think that the ancient Egyptians would have been glad to know this substance for their embalming purposes. A remarkable instance of its capability in preventing putrefaction is put on record by Prof. Calvert. A Mr. Clift dipped the leg of a dead horse in this acid, and exposed it for six years to wind and weather, and he found at the end of that period that it was as fresh and sound as the first day on which it was exposed to the air.

Again, the magic hand of chemistry has actually extracted rich and beautiful dyes, which are noted for the permanency and the beauty of the tints they impart, from this gas-tar. It is said that when silk and wool are properly dyed with carbonazotic acid, a product obtained from the tar, shades of yellow are produced which no other substance can give with the same durability; that the only other substance which will yield that colour is tumeric (the root of an East Indian plant), but which is liable to fade by the light and by the perspiration of the body. But the yellow which gas-tar gives is glorified by the light of the sun, and undimmed by the perspiration of the body. The colours which have their origin in coal-tar are known by the names—aniline purple, tyrian purple or mauve, violine, roseine, fuchsine or magenta, solferina, bleu de Paris, aniline green or emeraldine, azuline, pittacal, &c.

But another of the discoveries of chemistry is the manufacture of the most flagrant scents, the greatest variety of odorous essences from coal-tar. The voung lady arraved in her ball-room dress, with her

But another of the discoveries of chemistry is the manufacture of the most fingrant seents, the greatest variety of odorous essences from coal-tar. The young lady arrayed in her ball-room dress, with her finest cambric pocket handkerchief in her hand, perfumed with the celebrated "millefleurs," would be astonished, perhaps shocked, if she were told that she positively carried the product of coal-tar about with her. But startling as the information might be, it would nevertheless be an undeniable fact. It may seem strange that from this black compound, which is so offensive to our nasal organs, chemistry can really manufacture the sweetest scents. But strange as it may appear, it is a positive chemical fact.

Lastly, alcohol is mentioned as one of the products of the Boghead coal, and is said to be more stupis one of the greatest than that extracted

coal, and is said to be more stupifying in its effects than that extracted from malt. Now, as we have an amply supply of this fiery element for all needful purposes, we shall vote that the coal keeps its alcohol undisturbed, and, instead of inflaming our tongues, and stomachs with it, we turn it to illuminating and heating purposes.

Still this enumeration does not exhaust the stock of the useful products of each which the weadques power of chemistry has discovered for the stock of the statement of the stock of the useful products of each which the weadques power of the mistry has discovered for the stock of the statement of the stock of the useful products of each which the weadquest power of the stock of the statement of the stock of the useful products of each which the weadquest power of the statement of th

Still this enumeration does not exhaust the stock of the useful products of coal which the wondrous power of chemistry has discovered and applied, but it is neither necessary nor desirable that we should add to the list. Sufficient has been said to show that from coal alone we derive warmth, light, easy motion, beautiful dyes, and rich perfumes. And what more do we require? In fact, there seems to be no end to the solid, liquid, and gaseous things which the chemist can call forth from this black, compact substance, disinterred from the bosom of our venerable Mother Earth.

In beinging these aurency notes to an end, we would ask our readers.

In bringing these cursory notes to an end, we would ask our readers -Has the idea never flashed across your minds that there has been a wise and benevolent forethought in storing away the old forests for the use of man, the crowning form of created existence? We have no desire unduly to increase man's importance, and to make him the measure of all things, but we cannot avoid entertaining such a view. When we consider this coal question in all its bearings—when we remember the way in which the coal beds are placed in the earth's crust, and rendered accessible to man's reach—when we reflect on the crust, and rendered accessible to man's reach—when we renect of the constant stream of benefits flowing from these coal vaults—we cannot help thinking that the formation of coal was no haphazard occurrence, no chance movement, but brought about by the agency of laws now in operation with no less a design than to promote the welfare of creature man. If this be true, and the opinion seems to be confirmed by other evidence, there has been a Providence caring for mankind millions of years before the first man stood erect in this creation. The first coal-making plant that waved in the breeze was prophetic of the coming man. Our notable warrior vessels, with their iron-clad sides, and our steam horses that whirl us with astonishing rapidity over the earth's surface, were shadowed forth when the first vegetable mass was resolved into coal, and the first layer of ironstone was deposited. In short, every day of our lives we are using materials, we are taking benefit of arrangements, which myriads of ages ago were formed and appointed for our advantage

But it is certain this valuable mineral cannot last forever at ou present rate of consumption; for we are now removing annually more than 125,000,000 of cubic yards of this black substance. We need not, however, fret ourselves on that head, for the bank will not stop payment for many precious years—perhaps for hundreds of years; and before the last ton is extracted in the British dominions progressive man may possibly learn to do without it. No doubt, as the world now goes, deprived of this treasure our sea-girt isle would be shorn of her commerce and manufactures, and descend to a low figure in the scale of nations; and perhaps in due time the New Zealander, of whom Lord Macaulay graphically speaks, would be able to seat himself on a parapet of Westminster Bridge, and muse on the ruins of the once mighty London. But that dismal catastrophe will not happen yet awhile, at any rate; and before British strata are

entirely exhausted of this product something may be discovered to take its place, so that Macaulay's dark but striking picture may

but our commercial greatness does not altogether depend on our command of coal. Iron and limestone have contributed no small share in enabling Britain to take the highest position in the production and manufacture of all metallic goods. If any of the three were lacking or scarce our greatness would be sensibly crippled. Coal cannot say to the iron ore "I have no need of thee;" nor can the cannot say to the fron ore "Thave no need of thee;" nor can the coal and iron ore assume an independent position, and disdainfully say to the plain limestone "We can dispense with thy services." Without iron, the coal would be mainly confined to its use as an article of fuel; and without limestone, the iron could not well be separated from the earths with which it is connected.

Hence the useful combination of these three mineral substances in a nation's prosperity. But our concern at present is respecting coal. If this black substance should still remain a necessity of our civilisation, perhaps our American cousins will supply our wants, when our store is exhausted, from their extensive coal fields. At any rate, while this mineral boon is ours, it is our duty to the Giver of all good, our duty to posterity, not to waste it, but to use it with judicious eare, and by its aid to help on markind in their glorious and uncessing.

and by its aid to help on mankind in their glorious and unceasing march to truth, happiness, and prosperity.

M. A. Moon, F.G.S.

[This series of papers on Coal are the substance of a Lecture delivered to an audience of working men, at Whitehaven; and are forwarded for publication in the Journal, in the hope that they may be of use for a similar purpose in other districts.]

MINES INSPECTION.

SIR,—The public in this district take great interest in this subject, and the proposal made by Mr. Plant, whereby a real inspection of mines will be obtained. All who know Mr. Plant agree that he is the proper person to take this problem in hand; and, judging from the framework for an Act of Parliament which he has drawn up, and the way in which he has provided for its working, with his reply to the strictures published in your Journal, must convince those who do not know him that he is the man for the work.

Soon after the first Fern Valley Pit accident, in which so many lives were lost, Mr. Plant stated, in the presence of myself and others, that if the Ferndale Company went on again with their crop workings before they had an air-pit in the crop, and an air-way drawn into their crop workings from it, they would have another wholesale slaughter of men, which prophecy has since been sadly realised.

Mr. Plant considers that the Bill now before Parliament will be of little service unless under it a close and frequent inspection of mines takes place; and that where mines of a fiery nature are steep, it should be compulsory on the owners to put an air-pit in the crop. SIR,-The public in this district take great interest in this subject,

it should be compulsory on the owners to put an air-pit in the crop.

Mr. Plant's principle is that "prevention is better than cure," for while the former may be done, the latter can never take place under the present system—for the inspection of mines does not commence until the victims of the accident, which caused the inspection, are past all human aid.—Kingswinford, July 8.

A MINER,

THE DURATION OF OUR COAL.

SIR,-Inotice occasionally some discussion in your valuable Journal Str.—Inotice occasionally some discussion in your valuable Journal in regard of the duration of coal in this country (I mean in England, Wales, and Scotland), and have not seen very satisfactory data given on the subject. Some say that the quantity yet not worked is almost inexhaustible, while others assert that it will not take a very long period to get out all the workable veins, allowing, as it is generally admitted, a loss of 50 per cent. in the working of it, and the quantity left behind in veins, from 3 in. to nearly 12 in, thick each, will not be remunerative to any parties to work them (especially those veins which are very deep, and having bad tops), at the present prices given for steam and house coal, and also for coal fit for iron-smelting purposes. I am a Monmouthshire collier, and as such feel a little anxiety to know the true result of the investigations of the different mining poses. I am a Monmouthshire collier, and as such feel a little anxiety to know the true result of the investigations of the different mining engineers, who were, as I understood, employed in getting up a report on the subject. Doubtless it would be very satisfactory, and highly interesting, to a very great number of your readers, as well as myself, and also to other inhabitants of the counties of Monmouth and Glamorgan, especially to those who are interested in the iron, coal, railway, and dock properties of the said two counties, if some correspondent could furnish, through the Journal, a statement of the probable duration of the coal field of the said counties, distinguishing the quantities thus—

1.—The quantity of coal in veins from 3 in. to 12 in. thick each.

2.—The quantity of coal in veins above 12 in, thick each, fit for

2.—The quantity of coal in veins above 12 in. thick each, fit for steam and house coal only.

[poses.]
3.—The quantity of coal in similar veins, fit for iron-smelting purthe three quantities to be given after deducting, in both instances, The three quantities to be given after deducting, in both instance 50 per cent, for the loss in getting. A MONMOUTHSHIRE COLLIER.

THE CHANNEL TUNNEL.

SIR,—Referring to the application recently made by the promoters of the Channel Tunnel for a Government guarantee on 2,000,000/, sterling, for the purpose of making experiments to test the practicability of boring a sub-marine tunnel under the Straits of Dover, I beg to draw your attention to a statement which appeared in the *Monitcur* of June 30, a translation of which I enclose, containing some facts which I think are not generally known to the English public.

HENRY STEAD, Sec.

Translation of a statement which appeared in Le Moniteur Universal

Translation of a statement which appeared in Le Moniteur Universal of June 30, 1869:—

"Several English papers have announced that Mr. Bright, the English President of the Board of Trade, has received a deputation of the promoters of a propose, Jub-marine tunnel under the Pas de Calais (Straits of Dover), who stated to him that the Official Commission of Engineers, appointed by the French Government, had reported favourably on the scheme, in consequence of which the promoters ask the two Governments to guarantee them 2½ per cent. upon the 50,000,000 frs. (2,000,000, sterling) which the preliminary experiments connected with this project are expected to cost. The Commission declared in effect that the construction of a tunnel would not be impossible, without offering any opinion as to the outlay of time and money involved, and supposing there were no percolation of water. The promoters have made use of this declaration to ask for a guarantee of interest, but in its later meetings the Commission completely rejected this demand, and it is difficult to imagine that the Government would be disposed to auchorise an outlay of 50,000,000 frs., which would be 25,000,000 frs. (1,000,000, sterling) for France to make experiments on this project, which, even if it could be carried out, would be open to great objections. This scheme, besides, is no other than that of Mons. Thome de Gamond, which was rejected 12 years ago, because the Commission declared, before offering an opinion, that it would be meessary to expend 500,000 frs. (2,000,000,1) in preliminary experiments; it is clear, then, that an outlay a hundred times larger for the same purpose would not be authorised unless success were absolutely assured."

FAHLERZ AS A SILVER ORE IN ENGLAND.

SIR,—In last week's Journal I observe a letter from Dr. Phipson, on "Fahlerz as a Silver Ore in England," and as I have now been some time engaged in working mines in Cornwall containing such ores I am induced to send you the following remarks. The occurrence of true silver fahlerz ore—that is, the highly argentiferous varieties of the mineral species tetrahedrite, known by the names of freibergite and polytelite—in Great Britain was announced by Mr. D. Forbes, F.R.S., in his "Researches in British Mineralogy," Philosophical Ma-R.R.S., in his "Researches in British Mineralogy," Philosophical Magazine, November, 1867, and March, 1868, where specimens are described containing respectively 13°57 and 11°25 per cent. metallic silver. Similar ores from Cornwall were subsequently noticed by Mr. Davies, of the British Museum, in the Geological Magazine of December, 1867; and samples from Lostwithiel, examined by Prof. Church, presented in the Geological Magazine for February, 1868. Church, are stated, in the Geological Magazine for February, 1868, Church, are stated, in the Geological Magazine for February, 1808, to have yielded respectively 7:23 and 10:45 per cent. silver. As it is a well-known fact that most, if not all, fahlerz ores contain some silver, the remarks of Dr. Phipson would by practical men scarcely be applied to true silver fahlerz, since such small amounts of silver per ton as he alludes to are frequently found in the ores which do not even merit the appellation of true silver ores.

The mines which I am at present working are those of Bounds Cliff

The mines which I am at present working are those of Bounds Cliff and Treburget, situated respectively in the adjoining parishes of St. Teath and Endellion, in the north of Coruwall. The silver ore from both of these mines is dark argentiferous fahlerz (a true freibergite or polytelite), and has been analysed at my request by Mr. David Forbes, F.R.S., who found the clean Bounds Cliff ore to contain 9.8 per cent. silver, or 3202 ozs. per ton; and the Treburget ore (which frequently occurs in small trilliant tetrahedron crystals), 9.36 per cent, or equal to 3253\(\frac{1}{2}\) ozs. of fine silver to the ton; the silver contained some gold. The galean and copper pyrites associated in the

same lodes also contained silver, even when perfectly free from any admixture of silver ore, a sample of the clean galena from Treburget Mine yielding 69 ozs, to the ton, whilst the copper pyrites from the Bounds Cliff lode contains 32½ ozs. per ton of ore.

As the occurrence of true silver ores in England is one of considerable scientific interest, I shall be happy to give an order to visitors to enter and inspect the mine. Samples of the silver ores may be seen at the offices of Messrs. Tilly and Co., 1, Circus-place, London Wall.—6, Crown Office-row, Temple.

P.S.—The name polybarite used in Dr. Phipson's letter is, probably, a mistake for polybasite, which is not a fahlerz, nor is regarded by Greg and Lettsom, or other authorities, as an authentic Cornish mineral, notwithstanding the analysis by Joy, which is cited

Cornish mineral, notwithstanding the analysis by Joy, which is cited by Dana, which must, therefore, be looked upon with the suspicion which minerals procured from mineral dealers or other interested parties are justly entitled to.

ROYAL SCHOOL OF MINES-THE LECTURES.

ROYAL SCHOOL OF MINES—THE LECTURES,

SIR,—May I request, on behalf of the students here, the insertion of the enclosed remarks. We have long thought that as many second-rate educational establishments have obtained a notice in the columns of the press, it would be only fair for a School which gives a practical scientific education—probably the best in the kingdom—to have the same. Again, while the list of our professors includes names so well known to the public (as W. W. Smyth, Percy, Huxley, Frankland, &c.) as most eminent authorities in their respective departments, the School with which they have been connected, and in whose theatres they have lectured for many years, is almost quite unknown to the public. If, therefore, you would kindly put an end to the anomaly, by inserting the enclosed notice, you would directly oblige my fellow-students and myself, and at the same time indirectly inform your numerous readers that this country, so rich in mineral wealth, has a School of Mines.

FREDERIC JAMES M, PAGE,

Jermyn-street, Piccadilly, July 7.

[We insert the letter of Mr. Page, but he must know that the Lectures on Many and the same time indirective the series of the seri

[We insert the letter of Mr. Page, but he must know that the Lectures on Mining have been regularly published in the Journal. The last of the series ap-pears in the Supplement of this week.]

ROYAL SCHOOL OF MINES, JERMYN STREET.

At a meeting of the Council, on Saturday last, the results of the examinations for the past session were declared. The following gentlemen, having passed the requisite examinations, have obtained the title of "Associate of the Royal School of Mines" in the divisions mentioned:—

Bell, metallursteal.

G. BROOME, mining and metallurgical.

L. BROWN, metallurgical.

BUTLER, geological.

R. J. FRECHEVILLE, metallurgical.

The following wires and scholarships were awarded.—

[gical.]

The following prizes and scholarships were awarded:-

Two Royal Exhibitions of 151. for first-year students-i, J. J. BOWREY; 2, W. OWLAND. H.R.H. the Duke of Cornwall's Scholarship of 30l, for two years—W. J. Sollas. Royal Exhibition of 25l, for second-year students—W. Gowland. De la Beche Medal and Books for Mining—G. BROOME. The Director's (Sir Roderick I. Murchison) Prize for Geology—W. Gowland.

We also append the full lists for Mining, and its kindred sciences, Metallurgy and Applied Mechanics:—

t	APPLIED MECHANICS.	*********	METALLURGY.
g y y t s n y	Maury—First class. Page " Renwich " Brown* " Bayly* " Frecheville* " Wilkinson* " Wilkinson* " Williams* " Equal. Douglas—Third class. Exam.—T. M. Goodeve.	MINING. Rroome—First class, Manty Page Wilkinson—Second class. Williams Terry Butter—Third class. Exam.—W. W. Smyth.	Frecheville—First class. Broome Page Green Maury Brown Taylor Beil Jones—Second class. Martin Examiner—J. Percy.

MINING IN CARDIGANSHIRE.

MINING IN CARDIGANSHIRE.

Sir.—We read in Sacred History, "Where thy treasure is, there will thy heart he also." I cannot say that my earthly treasure will be found eventually under the Cardinanshire turf; although I have had a fair share—sufficient to keep the wolf from the door—yet my heart has been for a series of years, and still is, in Cardiganshire mining. I was pleased to read the remarks of "A Well-Wisher," in the Journal of June 19, as I felt convinced that he knew the ground he trod on, even by enumerating the different names of the old mines in connection with their new names. Capt. Trevethan, Jan."s, letter, of a subsequent date, canters over the ground as lightly as if he were a yearling, instead of an old rust. It gave me pleasure to trace his ideas, though I rogetted that he did not touch a little on the young and promising mines, on his rerial visit, ere he fell on Bronfloyd and West Bronfloyd; but, being quick in discernment and temper, his thoughts must have no sooner been there than he dropped his pen on the paper, and began to culogise these mines. Yet there are many promising mines, and such as will do well if persevered with in a practical sense—i.e., managed by men of skill, who give it their study and entire support. In "A Well-Wisher's" letter he says—" During a period of twenty-five years' residence in Cardiganshire, I have known all the present dividend mines to have been abandoned on account of poverty, resumed, and many newnamed." I know he is of my opinion, that practical men—men who give it their study, and men who are able to do so, being taught from the cradic—are now the managers of these mines. It would serve the former agents right if I were to give their names, but their conscience should now prick them.

Bronfloyd, indeed, is a mystery to some of the readers of the Journal, but not to men of that discretionary qualification essential to the working and bringing to a satisfactory issue the mines of Cardiganshire. I do not know of a single foot of ground within a radius of se

MINING IN CARDIGANSHIRE.

MINING IN CARDIGANSHIRE,

Sir,—In my last letter, with reference to mining in this county, I had not sufficient time other than running over the names and situations of the different mines on the rotte from Liandiloes to Aberystwith. Plynlimnon is the most castern mine in the county; the captains' reports speak of it, doubtless, better than I know it, so we will leave it alone for the time, and begin with the Esgair Lee, next in rotation. In my last this mine was spoken of as being worked by a gentleman from Birmingham; but you must understand, although called Esgair Lee, that it is not the old mine which was formerly worked, and that made such good returns, but one immediately to the north-west, just over the water brook. The old mine is now taken up by a party of whom you read in the Journal a fortnight since, and although only 30 fms, deep, yet, like many mines in the country, ceased working for a time. Why no one can now, perhaps, tell: they are not on the same lodes with each other, although closely parallel. There are other mines south of this valley running from the Old Cwmystwith Mine (so well known in mining history)—the Lisburne Mines, West Cwmystwith, Ty-Gwyn, Dolwen, &c., almost a host too numerous to mention—which brings one into the Rheidol and Ystwith valleys. But to return to the before-mentioned route on to the Ponterwyd mining district. Those amongst, them of any note are the Fowell United Mines, the Liawany, Bwadrain, &c., which are really good mines, and, no doubt, ere long may fairly be classed among the best of this county's young mines, although worked as the Powell United some 70 or 80 years ago, and abandoned, but taken up by my father some six or seven years ago, and now looking remarkably well. There is another old mine about this neighbourhood, perhaps a little further south. The celebrated Van lodes are supposed to traverse the county, running prety near souther old mine about this neighbourhood, perhaps a little further south. The celebrated Van lodes are supposed to traverse the c celebrated Van lodes are supposed to traverse the county, running pretty near the Ystymtean district, a little to the south of the above-named mines, and crosses the Rheidol Valley. I hope it may be found to flourish in this part of the world as it does at home; it is as much wanted by the working miner as by the speculator. We next come to the Goginan Mine. Almost everybody has seen or read of the Old Goginan, which made such profits for years, and, like others spoken of above, was allowed to slumber for awhile, but at last Messrs. Taylor and their men awoke to life, and put fresh armour on in the way of money, since which time hundreds of tons of rich silver-lead have been raised, and, from present appearances, as one may indee from a lode in the 100 fathom eastern level, worth 2 tons per fim, with such a back under a mighty hill as may lead one to suppose that its best days are in store. I hope they are, not only for the spirited shareholders, but for the county. There is another old mine, to the west of which there are no mines upon the run of its rich lodes as yet, but time and skill, with money, bring many things to pass. We will now run over to the east and north of Goginau, where the Bwich Consols, Cwm Erfin, Cwm Sebon, Darren, the Old Cwmsymlog, &c., are to be found, but of those mines I can add nothing to their advantage, other than saying they, with their agents, deserve every praise that captains generally get in good, profitable, and paying mines. These mines are good, and now, in conclusion, I must mention the two most western mines in the country, and though isse, not least, the Bronfloyd and the West Bronfloyd Mines, being assured that the former has not its equal in the country, and though isse, more man and speech than I am. All I can say is thhe—Lam proud that I have one (the latter mine spoken of above) so closely attached or the soundary. A greater prize of a buning set the west of the Bronfloyd Mine (dipping, as its riches are, to the west) is within 200 fms. of the boundary. A greater pri

from the hill on the southern side down to an ever-supplying crystal stream of water, and from this stream a cross-cut has been commenced, driving north to intersect the Bronfloyd lodes, which have been seen in the fields above, of a most promising character.

It is the intention of the present proprietors, father and son, to offer a part of this mine to any gentlemen who may feel interested in becoming speculators in this our county. Truly speaking, the West Bronfloyd Mine can scarcely be thought a speculation, but an almost certainty of becoming a profitable concern. It is about four miles east of the town of Aberystwith, and about two miles from the Bow-street Station, available to all parts of the kingdom are so rich." And speaking of the Old Cwmsymlog Mine, of which Black's Guide through Wales says—"In mineral treasures few counties in the kingdom are so rich." And speaking of the Old Cwmsymlog Mine, of which Black's Guide through Wales says—"In mineral treasures few counties in the kingdom are so rich." And speaking of the Old Cwmsymlog Mine. Yet this, and many others which have been successfully opened, had been long neglected. Until within the last few years, however, more attention has again been directed to the mines, more copper, lead, and silver ore have been raised, and there needs but the employment of more capital and more energy in these works to render Cardiganshire one of the most valuable mining fields in the kingdom." So much, then, for the old mines of Cardiganshire. But the mine of which I speak—the West Bronfloyd—is an entirely new piece of virgin ground; although sought after by many, yet never before worked.

S. TREVETHAN, Jun. Penlitoyn, Aberystoith, July 7.

Meetings of Public Companies.

COLONIAL BANK.

The sixty-third half-yearly general meeting of shareholders was held at the London Tavern, Bishopsgate, on Tuesday,
Mr. Charles Marryat in the chair.

Mr. C. A. CALVERT (the secretary) read the notice convening the meeting, and the subjoined report of the directors:—

The directors submit to the proprietors, in accordance with the provisions of the Charter, the following statement of the debts and assets of the corporation on Dec. 31, 1888, which also exhibits the net profit made during the half-year ending at that period:—

DEBTS.

Circulation	£ 288,155	12	6
Deposits, bills payable, and other liabilities	2,008,759	6	1
Paid-up capital	500,000	0	0
Reserved fund	140,000	0	0
Balance of profit from last half-year	3,390		
Net profit for the half-year	36,791	0	2
Total	£2,977,096	14	0
ASSETS.			
- manta	8 301 010		

9,326 6 5

33,909 17 8 3,390 15 3

Leaving £ 2,300 12 11 be carried forward to the next half-year. The CHAIRMAN remarked that as their able secretary, who had had To be carried forward to the next half-year.

The CHAIRMAN remarked that as their able secretary, who had had so much experience in connection with the preparation of reports, had been unable to find anything to say beyond communicating the figures, the proprietors could readily suppose that he would have very few observations to make. As they showed a profit rather less than last year he might, however, explain that upon making their usual periodical examination of accounts they found that one or two at St. Thomas's had not turned out so well as was expected, and the directors thought it best, following their invariable custom, to provide for them at once. (Hear, hear.) With regard to the small addition to the item for bank premises and furniture, it arose from the re-building of the house at St. Kitts, which it would be recollected had been destroyed by fire.

Mr. Harris enquired whether the person through whose errors of judgment considerable loss had accrued to the bank some two years since had participated in the distribution of bonuses mentioned in the report. —The CHAIRMAN said the person alluded to had not—in fact, he had not been in the service of the bank for a year and a half, having left very shortly after the occurrence.

The resolutions for the reception and adoption of the report, and the declaration of the dividends, were then unanimously carried.

Mr. Harris could but appreciate the extent to which the acceptance of such a proposition would militate against the best interests of the bank he was sure he would withdraw it. He had himself the utmost confidence in the directors, and he was sure that similar feelings were entertained by everyone in the room. —The CHAIRMAN thought it would be very undesirable to publish such detailed accounts as the proprietor who had proposed the resolution seemed to wish for. They had gone on for 30 years as at present, and had done well, so that he could not see the necessity for changing it. The motion was then withdrawn, and thanks having been voted to the Chair

LEAD MINING IN WALES.

THE CAPEL BANHAGLOG (EAST MID-WALES) LEAD

MINING COMPANY. [FROM OUR OWN REPORTER.]

The first annual general meeting of this company was held on the

The first annual general meeting of this company was held on the mine, on Tuesday. Previous to the commencement of business the shareholders, accompanied by Mr. Job Taylor, J.P. (Mayor of Dudley), the Chairman; Mr. Ross (Messrs, Ross and Co.), manager; Capt. John Kitto (local manager), and Capt. Samson Kitto (resident agent), walked over the sett, and inspected the different points of operation. Among those present on the occasion were—Mr. Job Taylor; Mr. Ross, London; Mr. Crump, Margate; Mr. Newby, Peckham (directors of the Mid-Wales Lead Company); Major Boyle, Capts, Kulbach, and Handley (directors of the Capel Banhaglog Company); and Mr. John Owen, director of Brynpostig Mine; Mr. W. A. Browne, director of New Brynpostig Mine; Rev. T. Jones, vicar of Llanidloes; Dr. Davis, Llanidloes; Mr. Eykyn, banker, Llanidloes; Mr. Davies, Cross Farm, and several other of the principal inhabitants of Llanidloes. The following shareholders in the respective mines were also present:—Messrs. Llewellyn, of Liverpool; Adam, of Mirbank; Cotterall of Chester; Kirke White, of Killerney; Rev. John Smit; Rev. John Beresford; M. Humble, J.P., of Denbigh; Rev. J. Sutton, of Laygh; Edward Humble, of Vicar's Cross; J. G. Bissell; J. Killey, of Rainsay; J. Fraser, of Camborne; A. R. B. Knight, of Ludlow Castle; Capt. Samson Kitto, Capt. John Kitto, Capt. Barkell, Mr. Hughes, Mr. Webb, Mr. Terry, of Dudley, Mr. Jones, and many other shareholders in responsed Hughes, Mr. Webb, Mr. Terry, of Dudley, Mr. Jones, and many other shareholders in person and by proxy.

The chair was occupied by Mr. JOB TAYLOR.

The chair was occupied by Mr. JOB TAYLOR.

The notice convening the meeting was read;

The report of the directors stated that during the past year steady and satisfactory progress had been made with the works, all the machinery would be completed in a few weeks, and the sinking of the engine-shaft below the adit level would then be resumed. Public attention being at the present moment so strongly directed to the neighbourhood in which this mine was situated, owing to the wonderful success which was attending the development of the Van Mine, the directors thought it as well to recall attention to a late report by Capt. J. Kitto, when he first struck the lode in the deep adit level—that it was "the best discovery he had yet seen in the district." It was estifactory to find that his original good opinion remained unaltered, and that the property bids fair to become second to none in the now celebrated Lianuidoes district.

The remort of the local manager (Capt. John Kitto) stated that the

to find that his original good opinion remained unaistered, and that the property bids fair to become second to now in the now celebrated Liandidoes district.

The report of the local manager (Capt. John Kitto) stated that the underground workings, since the last annual meeting, have been more particularly confined to the driving of a deep adit level from the river side on that part of the company's property known as "Old Chapel," and to the sinking of shafts for ventilation, and for the deeper development and proper opening out of the mine. The adit level has been driven on a course of lode about 70 fathoms, and for the whole distance the lode has been strong, and of a decidedly favourable character, varying in width from 2 to 8 ft., and yielding occasionally excellent lead ore; in one place—more particularly near the site of the present engine-baft, they passed through a nice bunch of ore, from which some beautiful tead stuff was raised, and is still on the bank, but being only about 15 feet below the surface, of course, little or nothing can be expected from above this level, but on reaching the next level, 12 or 15 fathoms deeper, for which they have commenced to airly, he fully anticipates having some good paying ground. The lode in the present end of the adit level above referred to is from 3 to 4 feet wide, of a very promising character, and yielding a little ore. The new engine-shaft has been sunk sitogether from aurface about 9 fms., 16 feet of this being below the adit level; at this depth they got to the level of the river, and the water became

so very quick that they had to suspend the sinking for a few days, until the pumping-machinery was set to work—this is being prepared as fast as possible, and will be ready to work by the end of next week, when the sinking will be immediately resumed. They have sunk another shaft 7 fathoms from surface, about 50 fathoms to the west of the engine-shaft; this is intended for a drawing shaft, and for ventilating the mine, and this they were also compelled to suspend on account of the water, but as the deep adit level is now very nearly driven up to this point he expects the water will shortly be drained, when a communication can be easily effected. They have completed the wheel-pit, and are now erecting a 30-ft. diameter water-wheel for pumping and drawing, which will be at work next week; they have also cut a water-race upwards of 300 fms. In length, and are now making a large reservoir, which will be completed in a few days. The surface erections consist of smiths' and carpenters' workshops, store-room and office, all well and substantially built, and overed with the best material, and will be found quite equal to the requirements of the mine for many years; altogether, he considered the prospects to be very encouraging, equal to almost any young mine in the same stage of development, and very superior to many others, and should the lode continue to improve in depth, as from its general appearance in the adit level there is every reason to anticipate, they will undoubtedly have a productive mine.

The report of Capt, James Nancarrow (consulting engineer) stated that the adit level has been driven east from the Mid-Wales side from 20 to 25 fathoms; here the lode is large and well defined, but not so highly mineralised as on the other side of the hill. In the eastern part of the mine the adit level has been driven west about 70 fathoms. In this level the lode is large, and of a most promising character, and in places thas produced some good stones of clad; in fact, the has never seen a better sample of ore in the

The CHAIRMAN said he had much pleasure in meeting his co-shareholders upon their property, because it afforded him an opportunity of congratulating them upon the satisfactory progress that was being made in its development, and also upon the unusually favourable inmade in its development, and also upon the unusually favourable indications presented, considering the comparatively limited extent to which the operations have as yet been carried. (Hear, hear.) Such, indeed, were its general appearances that he did not hesitate to say that they most favourably compared with the now celebrated Van, when that mine was in its infancy. He had been mining in this district for many years, and in other parts of the country from his boyhood, and he wished to take the present opportunity to state that he was not only much pleased with the prospects of their property, but shareholders might rest perfectly satisfied that all the work had been well and economically done. He challenged anyone to say with truth that a similar amount of capital could have been more advantageously expended; and all he, in conclusion, could say was that he believed the time was not far distant when they would have to congratulate each other upon being the possessors of a remunerative property that would progress in richness as its development was extended. (Hear, hear.)

Mr. Ross (Ross and Co.) said it was with much pleasure that he had had that day another opportunity of meeting his co-shareholders

had had that day another opportunity of meeting his co-shareholders upon their property. It was especially satisfactory to him to find that, at least among those who had associated themselves with him in the development of mines, a growing interest was being evinced to visit the respective properties with which they were connected. He did not know that he should be treading upon the toes of anyone when he took to himself the credit of having initiated this most wholesome practice; but, be that as it might, the fact was perfectly well known to those with whom he was more immediately associated that it had been his constant endeavour for vener part, to impress upon all the been his constant endeavour for years past to impress upon all the desirability of adopting this most salutary course. The investment of capital in other channels of commercial or industrial enterprise been his constant endeavour for years past to impress upon all the desirability of adopting this most salutary course. The investment of capital in other channels of commercial or industrial enterprise engendered the anxiety to visit, where practicable, the object or work upon which the outlay has been incurred; but, singularly enough, when capital has been ventured upon the opening out of a mine—in regard to which it is, perhaps, more than in any other case necessary to obtain every atom of information that can possibly be elicited—there appears to exist a supleness, an apathy, an apparent heedlessness, inducing more or less the same sort of feeling on the part of the executive, although otherwise anxious to bring about successful results, and at the same time opening the door for the commission of lackes, which a little ordinary interest, to say nothing of watchfulness, on the part of shareholders might in most cases avert. (Hear.) He did not mean to say that a visit to a mine would enable the unpractised eye to form any appreciable opinion as to its merits or capabilities, but he thought those present would bear testimony to the fact that by the information which their manager had imparted during the inspection of their property they had now not only a much clearer idea than hitherto as to its actual condition and prospects, but had had demonstrable ovidence that they were really the possessors of a mine which, according to the opinion of all who know anything of the subject, required nothing but an energetic development to bring about successful results. (Hear, hear.) Since he last had the pleasure of addressing the shareholders the Van Mine, on the slope of yonder mountain, had, so to speak, emerged from a comparatively unknown existence, becoming—and deservedly so—the great pole-star of the mining horizon. When he (Mr. Ross) first came mining in that district it was not only somparatively unknown to the capitalist, but those who now exciled its merits, and affirmed there were yet many other Vans up respec

as there could be no doubt that there were substantial grounds for believing that East Mid-Wales would prove to be one of the leading mines in the Liandboed district.

Capt. JOHN KITTO (the manager), in reply to questions, stated that the prospects were now more than equal to anything they could reasonably expect at the present initiatory stage of development. The deep adit level had been driven between 70 and 80 fms. on the course of the lode, and for the whole length it had averaged from four to six, and in some places as much as eight, feet wide. The engine-shaft was down 3 fms. below the adit level, where the lode was 4 feet wide, exceedingly promising in character, and producing very good stones of lead ore. The shaft sinking higher up the mountain, which had been suspended on account of the water, was now being drained by the adit level, and it was expected that its sinking could be resumed in a few days; that would come down at about the present end of the adit, which would give ventilation. The general character of the lode had much improved during the last week, its character now being more nearly resembling what it was in the shaft when the ore ground was driven through at the time of the last meeting. The stuff they now saw on the bank was in every respect more kindly than anything yet seen in any mine in the district. As to the machinery, he might state that before the end of the week everything would be finished, and the 30-ft. water-wheel would be at work. The leats, roads, and the large reservoir were complete, as were all the other requirements necessary for the working of the mine for some years to come. Looking at the property as a whole, and at the favourable character of the lode so far as it had been opened out, there were the soundest reasons for the shareholders to look forward to the early realisation of successful results. (Hear, hear.)

Capt. Samson Kitto, the resident agent, said his opinion of the mine for some years to come. Looking at the property as a whole, and at the favourable

ore.—Mr. HUMBLE asked if there would be sufficient water at all seasons of the year to keep the water-wheel at work?—Capt. JOHN KITTO said that there was usually a large stream of water, and when that could not be depended upon they had the large reservoir, so that he did not think they would ever have any difficulty on account of scarcity of water.

Mr. Monoksasked if anything like a positive opinion could be given as to the probable depth at which the lode would become productive?—Capt. Kitto felt justified in saying that at a reasonable depth it would be found productive. One favourable feature was that as the drivage was extended towards the hill the lode improved.

One favourable feature was that as the drivage was extended towards the hill the lode improved.

Capt. KULBACH drew attention to the report which had been written by Capt. Kitto, in which he stated that the lode was as good as anything he had ever seen in the district. —Capt. Kitto in the lode improved.

Kitto, in which he stated that the lode was as good as anything to induce him to alter his opinion—in fact, he might now state that the indications about the engine-shaft were far superior to anything he ever saw in the district.

A SHARBHOLDER would like to know what Capt. Kitto meant by the district.

A SHARBHOLDER would like to know what Capt. Kitto meant by the district.

Capt. KITTO said he meant the whole of the Lianidioes district. For instance, they had a richer lode at Brynpostig, but the character of the lode at Cape Banhagiog, considering the depth, was altogether of a better character than at Brynpostig. He would challenge the whole district to produce such stuff. The CHAIRMAN said the Van Mine had been at work something like 12 years before it had raised even as much ore as Capel had upon the surface; and in their future operations they hoped to profit by the experience gained in the development of Van. They saw a certain amount of work was to be done, and the sooner it was done the better and the cheaper it would be, simply because that by saving time they would save money. —Mr. HUMBLE remarked that time must, of course, be given to sluk the shafts and open the levels before any very considerable returns could be expected.

Upon the proposition of the CHAIRMAN, seconded by Mr. FISHER, the report of the directors and balance-sheet were received and adopted.

Votes of thanks were passed to the Chairman and managers for the satisfactory information they had afforded the shareholders, all of whom expressed themselves much pleased with their visit to the mine. The proceedings the terminated.

[The reports of the meetings of the Mid-Wales and the New Brynpostig Lead Mining Companies are unavoidably postponed till next

MINING COMPANY OF IRELAND.

At the half-yearly meeting of this company (Mr. PATRICK BYRNE D'ARCEY in the chair) the directors were enabled to give a very sa-At the half-yearly meeting of this company (Mr. PATRICK BYRNH D'ARCEY in the chair) the directors were enabled to give a very satisfactory account of the progress made. The principal features of interest are that the working of the Knockmahon Mines, on which there was the previous half-year a loss of over 4000t. reported, has returned a profit; that there is a diminution in the aggregate debts of 1500t., and a saying of interest; and that instead of a profit of only about 280t., and no dividend, as in the previous half-year, the profits in the past half-year are about 4800t., and the directors were enabled to recommend a dividend at the rate of 6 per cent. per annum. Mr. John Arthur Phillips has visited Knockmahon for the company. The present monthly raising of ores amounted to about 300 tons, which made it evident that the Knockmahon Mines were now in a less satisfactory position than they had been in some former years, but if certain operations were carried out, with such others as might suggest themselves during the progress of the works, there was every probability that the Knockmahon Mines would again become as productive and prosperous as they ever were atformer periods. The CHAIRMAN said the report was so far satisfactory, but, in justice to Capt. Crase, he must say that Mr. Phillips could not suggest anything that was not being done. Their object in bringing in Mr. Phillips was to see that they were warranted in going to the expense they did with regard to the new trials, and by his report the shareholders would see that they were. They had taken another new royalty in the neighbourhood from Mr. Palliser, and the bargain with regard to it, he was happy to say, was altogether completed. Mr. Phillips examined it for minerals, but he (the Chairman) asked him not to make any report until they had received the final conclusion of their negociation, and, if Mr. Phillips's version were true they might have had a great deal of trouble about the company, they were improving. He did not think it was right to be s

GEOLOGICAL SOCIETY OF LONDON.

GEOLOGICAL SOCIETY OF LONDON.

June 23.—Prof. T. H. HUXLEY, LL.D., F.R.S., President, in the chair.

G. H. Wollaston, of the Geological Survey of England and Wales; Richard Pearce, Swansea; Richard Moreland, jun., Old-street, London; James N. Shoolbred, B.A., Assoc, Inst. C.E., York-buildings, Dale-street, Liverpool; Fritz Gillman, Ashley-place, Westminster, S.W.; and Richard Abbay, B.A., Fellow of Wadham College, Oxford, were elected Fellows of the Society. The following communications were read:—

1.—"On the new species of Gyrodus," by Sir Philip de Malpas Grey Egerton, Bart., M.P., F. R.S., V.P.G.S.

2.—"Note on a very large Saurian Humerus from the Kimmeridge Clay of the Dorset coast," by J. W. Hulke, F.R.S., F.G.S.

3.—"Note on some Fossil Remains of a Gavial-like Saurian from Kimmeridge Bay, establishing its identity with Cuvier's Denxième Gavial d'Honfieur," and with Quenstedt's Dakosaurus," by J. W. Hulke, F.R.S., F.G.S.

4.—"On the Geology of a Portion of Abyssinia," by W. T. Blanford, F.G.S.

5.—"On the Graphite of the Laurentian of Canada," by Prof. J. W. Dawson, LL.D., F.R.S., F.G.S.

6.—"On the Correlation, Nature, and Origin of the Drifts of North-west Lancashire and part of Cumberland," by D. Mackintosh, F.G.S.

7.—"On the Conceltion of the Geological Structure and Physical Features of the South-east of England with the Consumption Death-rate," by W. Whitaker, B.A., F.G.S.

8.—"On the Volcanic Phenomena of Hawaii," by the Rev. C. G. Williamson: communicated by Sir R. I. Murchlson, Bart., F.R.S., V.P.G.S.

9.—"Notes on certain of the Intrusive Igneous Rocks of the Lake District," by Dr. H. A. Nicholson, F.G.S.

10.—"On the Fos-il Myrlopods of the Coal Formation of Nova Scotia and England," by S. H. Scudder: communicated by Sir C. Lyell, Bart., F.R.S., F.G.S., England, Phys. H. Scudder: communicated by Sir C. Lyell, Bart., F.R.S., F.G.S., S. 1.—"On the Geology of the Country surrounding the Guif of Cambay," by A. Rogers, F.G.S., gombay Civil Service.

12.—"On the Geology of the Country surrounding

THE INSTITUTION OF CIVIL ENGINEERS. PREMIUMS-SESSION 1868-69.

The Council of the Institution of Civil Engineers have awarded

The Council of the Institution of Civil Engineers have awarded the following premiums:—

1.—A Telford Medal, and a Telford Premium, in Books (to consist of a complete set of the publications of the Institution), to M. Jules Gaudard, C.E., Lausanne, for his paper "On the Present State of Knowledge of the Strength and Resistance of Materials."

2.—A Telford Medal, and a Telford Premium, in Books, to William Steelkern, M. Inst., C.E., for his paper "On the Outfall of the River Humber."

3.—A WATT Medal, and a Telford Premium, in Books, to Zerah Colburn, M. Inst., C.E., for his paper "On American Locomotives and Rolling Stock." (Has previously received a Telford Medal.]

4.—A Telford Medal, and a Telford Premium, in Books, to Thomas Nesham Kirkham, M. Inst., C.E., for his paper. "Experiments on the Standards of Comparison employed for Testing the Illuminating Power of Coal Gas."

5.—A Telford Medal, and a Telford Premium, in Books, to J. Ellacott, M. Inst., C.E., for his "Description of the Low Water Basin at Birkenhead."

6.—A Telford Medal, and a Telford Premium, in Books, to Prof. David Thomas Ansted, F.R.S., for his paper "On the Lagoons and Marshes of certain parts of the Shores of the Mediterranean."

7.—A Telford Premium, in Books, to William Henry Wheeler, M. Inst., C.E., for his "Description of the River Witham and its Estuary, and of the various Works carried out in connection therewith, for the Drainage of the Fens and the Improvement of the Navigation."

8.—A Telford Premium, in Books, to James Robert Mosse, M. Inst., C.E., for his paper "On the Mauritius Rallway, Midland Line."

9.—A Telford Premium, in Books, to James Bellum, Inst., C.E., for his paper "On the Surviva Rallway, Midland Line."

10.—A Telford Premium, in Books, to James Bellum, Inst., C.E., for his paper "On the Mauritius Rallway, Midland Line."

10.—A Telford Premium, in Books, to James Bellum, Inst., C.E., for his paper "On the Mauritius Rallway, Midland Line."

10.—A Telford Premium, in Books, to James Bellum, Inst., C.E., for his pap

paper "On Sinking Wells for the Foundation of the Milkoy, Assoc, Inst. C.E., for Delhi Railway."

10.—A TELFORD Premium, in Books, to John Milkoy, Assoc, Inst. C.E., for his "Description of Apparatus for Excavating the Interior of, and for Sill, from Cylinders."

11.—A TELFORD Premium, in Books, to Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to John Milkoy, Assoc, Inst. C.E., for this work in the parker by the parker by the Samuel Parker Bidder, Jun., 11.—A TELFORD Premium, in Books, to John Milkoy, Assoc, Inst. C.E., for the parker by the parker by

Iron Cylinders."

11.—A TELFORD Premium, in Books, to SAMUBL PARKER BIDDER, Jun., Assoc. Inst. C.E., for his paper "On Machines employed in Working and Breaking-down Coal, so as to Avoid the Use of Gunpowder."

12.—A TELFORD Premium, in Books, to CHARLES JOHN CHUBB, for his paper "On Coal-getting Machinery as a Substitute for the Use of Gunpowder."

13.—The MANNY Premium, in Books, to DAVID MARR HENDERSON, Assoc, Inst. C.E., for his paper "On Lighthouse Apparatus and Lanterns."

The Council have likewise awarded the following prizes to Students

of the Institution:

1.—A MILLER Prize to EDWARD BAZALGETTE, Stud. Inst. C.E., for his paper "On the Use of Concrete in Building Operations."

2.—A MILLER Prize to FREDERICK HARRY MORT, Stud. Inst. C.E., for his paper "An Enquiry into the Nature and Causes of some Discrepancies between Theory and Practice."

3.—A MILLER Prize to TRISTIE JAMES ELLIS, Stud. Inst. C.E., for his paper "On the Artistic Design of Bridges."

4.—A MILLER Prize to THOMAS ROBERT GAINSFORD, Stud. Inst. C.E., for his paper "On the Construction of a Railway Tunnel, or Covered Way, at Bradford, Yorkshire, among abandoned Coal and Ironstone Workings."

5.—A MILLER Prize to CHARLES HENRY GREY JENKINSON, Stud. Inst. C.E., for his paper "On Wrought Iron Girder Bridges."

6.—A MILLER Prize to GEORGE HERRY GREY JENKINSON, Stud. Inst. C.E., for his paper "On Reservoir Embaukments."

THE WELSH SLATE TRADE.—The produce of the numerous slate parries of North Wales is estimated at the present time to be not far from 10,000 tons annually, representing in money value about 865,000L, or an average

FOREIGN MINES.

DON PEDRO NORTH DEL REY GOLD MINING COMPANY .- The di-

DON PEDBO NORTH DEL REY GOLD MINING COMPANY.—The directors have forwarded the following circular to their shareholders:—

SIR,—It having come to the knowledge of the directors that certain interested parties have addressed letters to some of the shareholders with the view of inducing them to sell their shares, the directors feet that they are only doing their duty by placing before the proprietors the following facts:—With a view to keeping the proprietor fully informed upon all matters relating to the mines the directors instructed Mr. Symons to forward by the earliest opportunity particulars of any change, either of a favourable or unfavourable character, so that should either an increase or a decrease in the produce seem probable, the shareholder should be the first to receive the intimation. On the present occasion, owing to an increase of water, Mr. Symons reports that there is a probability of soon being unable to work the bottom and richest stopes until powerful pumping machinery has been erected. The directors would draw the attention of the shareholders to the monthly slip for August, 1868, wherein, under the head of "Drainage of the Mine," it was explained that a horse-engine had been ordered, and that if possible the drainage would be carried on by means of Californian pumps until the horse-engine was erected. Under date the lat of June Mr. Symons reports that owing to difficulties experienced in dispatching the horse-engine had not then left Rio, but if it is not by this time at the mine it may fairly be supposed that it is on its way. It is not quite clear from the report whether the substitution of iron for wooden machinery will delay the report whether the substitution of iron for wooden machinery will delay the report whether the substitution of iron for wooden machinery will delay the reservoir of the horse-engine, but as in the original requisition Mr. Symons desired that "drawings of the machinery bernament) has been received, the horse-engine will be temporarily fitted. Should, however, the

Total 201,189 .. £56,361

IMPERIAL SILVER QUARRIES .- L. Chalmers, June 14: Last week adamantine bar of sienitic porphyry, and made only 7 feet.

machinery quite recently, the crushing of the ore has been entirely performed by hand.]

IMPERIAL SILVER QUARRIES.—L. Chalmers, June 14: Last week we worked in an adamantine bar of sientite porphyry, and made only 7 feet.

PESTARENA UNITED.—Thomas Roberts, James Mitchell, Thomas Warne, July 2: We retorted the amalgam obtained from the three districts in June month, and metted vesterday the gold; to-day we consigned it for remittance to the office—tight 935 lons of ore; 179 tons amalgamated at Pestarena June month, and metted vesterday the gold; to-day we consigned it for remittance to the office—tight 935 lons of ore; 179 tons amalgamated at Pestarena syledded 236 oze, 17 dwts. 2 grs.; 181 tons of more inferior ore, amalgamated at Battigio establishment yielded 140 oze, 6 dwts. 10 grs.; (2 tons from Canl Mine 194 led 62) \$20 set, 13 dwts. 2 grs.; and \$13 tons from Val Toppa Mine gave 354 oze, 18 dwts. 5 grs.—Mines: Aquavite: The lode at the engine-shaft sinking under the 46 yields 2½ cons of ore per fathom, estimated to be worth 1/4 oz. of gold per ton; the lode in the end, driving south in the 46, 2 tons per fathom, worth 1 oz. per ton. The old stope, in back of this level, is now producing 2 tons of ore per fathom, that give 1 oz. per ton. About the middle of the present stopes, where the lode will yield 5 tons of 1½ oz. ore per ton. The end of the 28 south promises for an improvement. The stope in back of this level yields 5 tons, the present stopes, where the lode will yield 5 tons of 1½ oz. ore per ton. The end of the 28 south promises for an improvement. The stope in back of this level yield 5 tons of ore per fathom, worth the 30 tons of ore per fathom, worth the 30 tons of the 18 south step yield 5 tons of ore per fun, worth oz. per ton, and the stope is south of this winz 3 tons ore per fathom, worth the 30 tons of this level yield 5 tons of ore per fun, worth oz. per ton, and the stope in back of this level yield 5 tons of ore per fun, worth oz. per ton this level yield 5 tons of ore per fun, worth 1/4

RHENISH CONSOLS.—G. Sweet, Wiehl, June 30: Christiana: The engine-shaft has been deepened this month 1-1 lachter; total depth attained below the 20, 8-2 lachters. The end driving east on the north part of the lode, in the 20 lachter level, will afford 10 centners of lead ore per lachter. The driving east, on the south part of the lode, in the 10 lachter level, will also afford 10 centners of lead ore per lachter. The driving east, on the south part of the lode, in the 10 lachter level, will also afford 10 centners of lead ore per lachter. The driving east, on the south part of the lode, in the 10 lachter level, will also afford 10 centners of lead ore per lachter. He western drivage in this level is poor. In cross-cutting south near the western forebreast, in the adit level, the lode is thinly spotted with lead ore, but as yet no footwall. The stope in the roof of the 20 lachter level, and east of Pittar's winze, is looking much better than it was a week since, and will afford 2 tons of lead ore per lachter. A stope in the roof of the 20 lachter level, and near the western end, will afford 1 ton of lead ore per lachter.

A stope in the roof of the 10 lachter level, and west of Sweet's winze, will afford 1½ ton of lead ore per lachter. Pliebach: The 10 lachter level end, on the middle lode, has not been further extended during this month, but the men have been employed in breaking through the lode towards the north level, which is 6 feet wide, and will afford 1½ ton of lead ore per lachter. Our intention is in the coming month to start a sink at this point. Nos. 1 and 2 stopes, in the roof of the 10 lachter level, on the middle lode, will each afford 15 centners of lead ore per lachter. The end driving east, on the south lode, in the 10 lachter level, on the middle lode, will each afford 15 centners of lead ore per lachter. The end driving east, on the south lode, in the 10 lachter level, will afford 15 centners of biende per lachter. No discovery made in the cross-cut on the copper lode. We have four tribute ba

The usual annual return of all exports and imports of copper and copper ore and regulus, tin and tin ore, lead and lead ore, spelter and zinc, for the twelve months ending Dec, 31 last, moved for by Mr. St. Aubry, has been issued. The import of Copper Re amounted to 83,334 tons; of regulus, to 30,702; of unwrought copper, copper in bricks or pigs, rose copper, and cast copper of all kinds, 7361 tons; of old copper, fit only for re-manufacture (including yellow metal sheathing), 368 tons; of partly wrought copper (comprising bars, rods, or ingots, hammered or raised), 27,806 tons; of plates and sheets, 244 tons; plates for coin and copper coin, 64 tons; and of copper manufactures and engraved copper plates, 10,2342, worth. The import trade for copper has been carried on chiefly by Swanses, Liverpool, and London; Hull, Newcastle, and Goole following next in importance; small quantities being imported at Southampton, Cardiff, Dublin, and other places. The subjoined will show the relative position of the first six:—

 Cardiff, Dublin, and other places. The subjoined will show th

 Intive position of the first six:—

 Ports.
 Ore.
 Regulus.
 Plgs.
 Bars.
 Old.

 Swansea.
 Tons 37,628
 21,785
 390
 6,351
 32

 Liverpool
 21,483
 8,787
 447
 21,934
 69

 London
 12,688
 111
 4,716
 246
 199

 Hull
 5,196
 —
 23
 35
 17

 Newcastle
 2,841
 9
 1,434
 158
 11

 Goole
 2,491
 —
 —
 —
 3

 Other places
 997
 10
 352
 82
 37

Total 83,334 30,702 7,361 27,806 368 With regard to the source of supply, Chili, of course, occupies the highest position, yet, owing to the distance, and the consequent high cost of transport, the metal comes to us principally in the form of

cost of transport, the metal comes to us principally in the form of regulus and partly-wrought copper, comparatively little ore being received from that country. The largest supply of copper ore comes from Australia (which includes West and South Australia, Victoria, which sends the largest quantity, and New South Wales), British North America, Cuba, Chili, Norway, and Italy, the figures being:—

Countries. Ore. Regulus. Plgs. Bars. Old. Chili. Tons 7,481 25,643 443 24,398 7

Australia 14,661 59 4,349 331 2

Brit. No. America 12,706 625

Brit. No. America 12,706 625

Cuba 10,374 487 — 36 156 24

Norway 6,871 — 36 156 24

Italy 6,031 3,888 2,533 2,921 350

Other places 25,210 3,888 2,533 2,921 350 Total 83,334 30,702 7,361 27,806 368

Total ... 83,334 ... 30,702 ... 7,361 ... 27,806 ... 368

With regard to the export copper trade, considerably more than one-half of the business appears to have been carried on through London, whence was exported 16,564 tons of sheets, nails, &c., and 3011 tons of unwrought. Next follows Liverpool, with 7438 tons of the former, and 1073 tons of the latter. Then Swansea, with 1829 tons of sheets and nails, and 505 tons of unwrought. And Newcastle follows, with 75 tons of the former and 1312 tons of the latter. The ports of Hull, Harwich, and Southampton are next in rotation, and these, with sundry small exports from other places, raise the total exports of copper to 38,199 tans, which comprised of sheets, nails, &c. (including mixed or yellow metal), 27,675 tons; unwrought, and wrought copper of other sorts, 1100 tons. There were 2 tons of copper ore also exported. The largest proportion of these exports was sent to British India, which figures for 13,453 tons, whilst the next largest, France, took only 4387 tons. Holland took 3132 tons; Italy, 2251 tons; Hamburg, 1436 tons; and Turkey, 1408 tons. Of foreign copper we re-exported upwards of 20,000 tons—of ore, 1408 tons; of pregulus, 102 tons; of unwrought, 4426 tons; of partly wrought,

argest, France, took only 4537 tons. Indiand took 3132 tons; Italy, 2251 tons; Hamburg, 1436 tons; and Turkey, 1408 tons. Of foreign copper we re-exported upwards of 20,000 tons—of ore, 1408 tons; of regulus, 102 tons; of unwrought, 4426 tons; of partly wrought, 16,425 tons; of plates and coin, 24 tons; and of copper manufactures, 29691, worth. Of the partly-wrought copper, 9734 tons were sent to France and 4353 tons to Belgium; and of the unwrought, France took 1370 tons, and Russia 1085 tons. The partly-wrought copper was shipped chiefly from Liverpool, and the unwrought principally from London. There are separate lists, showing the destination of the copper exported from London and from Liverpool respectively, but it is scarcely necessary to give abstracts of them.

Of TIN, there was imported into the United Kingdom during the year ander consideration 5625 tons, and of tin ore and regulus 470 tons, the chief source of supply being, of course, the Straits settlements and Holland, which together sent us 5093 tons. The exports were during the same period, of British tin 4061 tons, and of foreign tin 1105 tons. France was our best customer for both descriptions, taking 1134 tons of the former and 648 of the latter. The United States took the next largest quantity, and Russia followed. Turkey took 319 tons. The exports of tin to other places were unimportant.

The import trade in Zinc and Zinc One is represented by 39,967 tons of ore, 31,222 tons of zinc or spelter, and 2700 tons of oxide of zinc. Of the zinc ore, 24,491 tons came from the island of Sardinia and 13,440 tons from Spain, whilst nearly the whole of the metal came from Hamburg, Belgium, Holland, and Prussia. The export trade in zinc and zinc ore is represented by 8455 tons of British zinc, sent chiefly to British India, France, and the United States; 3711 tons of foreign zinc, of which 2548 tons were sent to British India; 1647 tons of zinc ore, sent to Holland and Belgium; and 7 tons of oxide of sinc, of which 4 tons were sent to Singapore, 2 tons t

Total 49,461 11,882 75 1107
Countries. Pigs and sheets. Orc. Red lead. White lead.
Spain Tons 37,229 449 — 93
Greece 7,722 — —
Italy 46 9,480 — —
Holland 1,036 3 71 501
Other places 3,428 1,950 4 513

Total... 33,697 ... 5577 ... 2281 ... 2330 ... 570 ... 3800 ... 5193

"Including rolled lead.

Our best customer for lead appears to have been China and Hong Kong; the United States, Russia, France, and Hamburg following next in rotation. With regard to the destination of the 41 tons of lead ore, it appears that 21 tons were sent to British India, 8 tons to the United States, 6 tons to Palestine, 4 tons to Egypt, and the remaining 2 tons to British North America. The destination of the lead can be judged of from the subjoined table:—

Countries. Pigs. Sheet. Piping. Shot. Lithage. Red. White. China, &c. 9,967 143 ... 19 ... 15 ... 25 ... 11

Total.... 33,697 5577 2281 2330 570 3800 5193

With the exception of 4 tons of white lead sent from Glasgow to Belgium, the whole of the foreign lead and lead ore re-exported was sent from London and Liverpool, Liverpool sending 35 tons (the total re-exported) of lead ore and 240 tons of manufactured lead, total re-exported) of lead ore and 240 tons of manufactured lead, and London sending the remainder. The total re-export of pig and sheet lead amounted to 499 tons, of which 220 tons were sent to the United States, 216 tons to China and Hong Kong, 45 tons to British India, and the remaining 18 tons to Japan. Of litharge, 1 ton was parts, 38 tons being the total. And of white lean, a white serve to Belgium, as already mentioned, 15 tons to British India, and the remaining 6 tons to other places, not enumerated in the return, 25 tons being the total. It will thus be seen that, on the whole, the return is by no means unsatisfactory.

SALES OF COPPER ORES.

COPPER ORES SOLD AT THE CORNWALL TICKETINGS DURING THE QUARTER ENDING JUNE, 1869.

QUARTER ENDING	JUNE, 1869.	
Mines.	Tons,	Amount.
Devon Great Consols	4173	£15,195 14 6
South Caradon	1561	11,815 12 6
West Wheal Seton	1666	7,842 18 0
Clifford Amalgamated	. 1522	6,200 13 6
Marke Valley	1424	5,780 1 6
Wheal Seton Wheal Basset	1278	4,044 12 0
Wheal Basset	584	3,038 0 6
South Wheal Crofty	833	2,890 13 6
Carn Brea	628	2,565 16 0
East Caradon	629	2,416 1 6
Disconter	623	
PhœnixCrenver and Abraham	836	2,290 11 6
Deluce of Weles	299	2,106 0 0
Prince of Wales	299	2,056 10 6
Great North Downs	442	1,916 7 0
Okel Tor		1,591 14 0
West Damsel	333	1,366 9 6
Kelly Bray North Downs	300	1,322 17 6
North Downs	232	1,299 5 6
East Carn Brea	321	1,180 15 0
Gawton Copper	297	1,127 9 6
East Grenville Craddock Moor	254	1,124 18 6
Craddock Moor	250	1,093 15 0
East PoolGlasgow Caradon	390	1,080 13 6
Glasgow Caradon	310	1,039 16 6
Gonamena	273	992 17 6
Poldice	260	988 11 6
Wheal Emily Henrietta	195	945 13 6
Crelake	240	931 11 6
Prosper United	266	917 17 6
Par Consols. Wheal Marla and Fortescue North Treskerby Bampfylde	280	835 17 6
Wheal Maria and Fortescue	221	816 17 0
North Treskerby	171	784 10 6
Bampfylde	62	731 12 0
East Rosewarne	162	672 7 6
West Basset	200	645 13 0
West Caradon	142	493 1 6
West Caradon Gunnislake (Clitters)	88	470 0 0
Wheal Friendship Crinnis Consols	118	467 5 0 458 17 6 433 17 0 374 12 6 345 13 0
Crinnia Consola	80	483 17 0
Bedford United	130	374 12 6
North Roskear	62	345 18 0
Dolcoath	84	344 10 6
North Crofty		305 13 6
West's Ore	70	286 0 0
South Frances	58	
Wheal Crebor		
Levant		
Copper Hill		223 13 0
Hingston Down		217 17 6
Belstone	90	217 6 0
Brookwood		207 10 0
Pennance		179 18 6
Carn Camborne		176 2 6
New Troleigh		160 11 0
Tincroft	43	158 12 0
Wheal Rose	32	149 12 0
Feock Regulus	20	147 10 0
Champion's Ore	34	138 9 0
Sortridge Consols	26	135 17 0 127 0 0
Falmouth and Sperries	40	127 0 0
Wheal Buller	24	106 4 0
Wheal Russell	50	106 4 0 96 5 0 91 17 0
Wheal Mary Florence	22	91 17 0
South Condurrow Great South Tolgus	14	80 17 0
Great South Tolgus	20	70 10 0
Rosewarne Consols	10	70 10 0
Wheal Busy	32	70 6 0
North Basset	15	50 5 0
Maudlin	10	38 5 0
Bedford Consols	9	30 3 0
Wheal Grenville	5	25 0 0
Wheal Grenville Pendarves United	6	14 11 0
Collacombe	7	12 12 0
Old Pembroke	1	1 10 0

Total 24,030 £99,573 13 0 COMPANIES BY WHOM THE ORES WERE PURCHASED.

Vivian and Sons 3666 \$16,246 16 2
Freeman and Co. 1817 7,288 6 9
P. Grenfell and Sons 2666 13,749 17 3
Sims, Wiliyams, and Co. 2501 12,381 18 9
Williams, Foster, and Co. 3946 16,442 4 11
Mason and Eikington 2365 7,886 16 4
Bankart and Sons 1668 4,213 18 0
Copper Minera' Company 2562 10,170 7 3
Charles Lambert 1146 4,962 5 9
Sweetland, Tuttle, and Co. 1963 6,561 2 10 Total 24,030 £99,573 13 0

PRICES OF	MAT	ERIA	LS,		
As charged at the PROVIDENCE M Description.		uring the			April.
Common fronper		, 0d			april.
6 in. patent nails	10	0			many.
5 in. ditto		0			****
41/2 in. ditto		6			-
4 in. ditto	, 19	6	-		-
31/2 in. dittoper	1000 20	8	-		-
3 in. ditto	, 4	8	-		-
Iron shovelsper	cwt. 28	0	****		-
Steel point ditto	48	0	48 0		40s. 0d
White lead	, 24	0	-		24 0
Leatherpe	r lb. 1	6			-:
Norway timberper	foot 8d				-
Baltic ditto		2			
M. C. coals (contract)per		3	12 6		1123
Best candles*per			5 6		5 6
Tallow*per	cwt. 50	0	-	*****	50 0
Engine oilper	gal			*****	3 9
Powderper 100			33 0		33] [0
Safety fuse*per	coll 0	4			0 4
Hemp*pe	r 1b. 0	51/2	-		-
White yarn* Delivered	ree of c	arriage.	-	•••••	0 51/2

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

BEDFORD UNITED.—This celebrated mine paid dividends for nearly 20 years from the south part of the sett, which is still returning a good quantity of ore. In the more northern part of the sett there is a new shaft sunk nearly 100 fathoms deep, and out through some fine courses of ore. This part of the sett adjoins Devon Consols, which has paid upwards of one million sterling in dividends. There is little doubt but Bedford Mines will be shortly in the Dividend List. The next sale will be sufficient to pay the working cost of the mine.

NEW GREAT CONSOLS.—The public will be shortly invited to subscribe for a portion of the newlshares about to be issued to complete the development of this extensive property. The last sale of coppery mundle realised some 8904, and the returns of ore are over 800 tons per month, while the progects of the undertaking are exceedingly encouraging.

WHEAL CLIFFORD,—It appears that the call made at the last meeting cannot be enforced, as since the passing of the new Stannary Act no call can be legally collected unless notice of such eath shall have been given in the circular convening the meeting. Another meeting will, therefore, be necessary, and everything connected with the call will have to be gone over again. Several other shares have been relinquisible since the last meeting, some of them by parties from whom a relinquished since the last meeting, some of them by parties from whom a relinquishment was never anticipated. Sir William Williams, however, still retains his very large interest, desirous of doing his best to up-hold this highly important sett, the importance of which to the parish of Gwennap, and, indeed, to the district generally, cannot be overrated. Sir William has now, we are informed, 1375 shares registered in his name—a clear majority of the mine, and his call last week was between 9000t, and 0,000d. In the merchants' bills, recently charged, there is nearly 1000t, charged for extraordinary expenditure, several new bollers, &c. In fact, as now managed, it is stated, the machinery is amply sufficient to keep the mine in fork in winter as well as summer. We trust such will be found the case,—West Briton.

THE GREAT DIAMOND FROM THE CAPE.-The "Star of South THE GREAT DIAMOND FROM THE CAPE.—The "Star of South Africa" is the most beautiful gen we ever saw. It has not, of course, glittering facets, like a cut diamond, but it is as perfectly white and pure as the clearest crystal, and has besides a rich silken exterior that marks it a genuine aristocrat amongst precious stones. The greatest dullard could never mistake "the Star" for a common crystal. It is about the size of a small wainut, and in shape somewhat resembles a heart, being broad at one end and tapping slightly at the other. It is very difficult to detect the diamond shape in the irregular form of the stone, but it, nevertheless, looks living and beautiful, as if it were meant one day to glisten in a diadem.—Cape Aryus, June 4.

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WATSON BROTHERS' MINING CIRCULAR

WATSON BROTHERS, MINING AGENTS, STOCK AND SHARE DEALERS, &c.
1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MINING AGENTS, STOCK AND SHARE DEALERS, &c.

1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON BROTHERS return their most sincere thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their earnest endeavour to merit a continuance of both.

Messrs, WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes." (first series, 1862), "Cornish Notes." (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 2 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. WATSON BROTHERS have a remboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs. WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for cilents, and affording advice

to supply shares in all the best mines at close market prices, free of all charge for commission.

SATURDAY.—Good demand for East Lovell and West Chiverton shares, at an advance. Taquaril, Don Pedro, and Prince of Wales weaker. East Lovell, 13 to 15; West Chiverton, 46% to 48%; Taquaril, 2s. 6d. to 3s. 6d. prem.; Don Pedro, 44% to 44%; Prince of Wales, 21s. to 23s.; Van Consols, 2½ to 3½; New Lovell, 3s. to 35s.; Great Laxvey, 18% to 19½; Frontino, 22s. 6d. to 25s.; Oliverton, 3½ to 34%; Great Vor, 13½ to 14½; Frontino, 22s. 6d. to 25s.; Chiverton, 3½ to 34%; Great Vor, 13½ to 14½. New Lovell, and West Chiverton in demand. East Lovell, 14 to 15; West Chiverton, 47 to 48; New Lovell, 34s. to 36s.; Frontino, 23s. to 25s.; East Grenville, 4 to 4½; Granville, 46s. to 48s.; Builler, 13 to 15; West Frances, 49 to 51; Tincroft, 15 to 16; Prince of Wales, 23s. to 25s.; Great Laxvey, 19 to 20; East Caradon, 7½ to 7½; Chontales, 25s. to 25s.; Great Laxvey, 19 to 20; East Caradon, 7½ to 7½; Chontales, 25s. to 25s.; Great Vor, 13½ to 14½; Chiverton Moor, 3½ to 3; Great Vor, 140; to 145; to 145; East Caradon, 7½ to 7½; Chontales, 25s. to 25s.; Great Vor, 13½ to 14½; New Lovell, 34s. to 36s; East Lovell, 14 to 15; Builler, 12 to 14; West Chiverton, 47 to 48; West Frances, 49 to 51; Chontales, 25s. to 36s.; Don Pedro, 3½ to 33; East Caradon, 6½ to 7.

WEDNESDAY.—Market again quiet. Don Pedros advanced to 4½, Euglier, 12 to 14; Chiverton Moor, 246 to 3; East Lovell flatter. Don Pedro, 4 to 4½; Euglier, 12 to 14; Chiverton Moor, and East Lovell flatter. Don Pedro, 4 to 4½; Euglier, 12 to 14; Chiverton Moor, and East Lovell flatter. Don Pedro, 4 to 4½; Euglier, 12 to 14; Chiverton Moor, 246 to 3; East Lovell, 156, to 18s.; Great Vor, 13½ to 14½; Van Consols, 2½ to 3.

THURDAY.—Market quiet, and prices nominal. West Chiverton, 47 to 49; Frontino, 24s. to 25s.; Chiverton, 3½ to 3½; Crenville, 47s. to 49s.; Great Wille, 47s. to 49s.; Van, 36 to 37; Van Consols, 2½ to 3.

THURDAY.—Market quiet, and prices nominal. West Chiverton Mov

ALARM APPARATUS FOR STEAM-BOILERS.—Mr. T. F. TAYLOR, of Philadelphia, U. S., has invented an automatic apparatus for indicating a deficiency of water in steam-boilers. The apparatus is provided with a whistle or other similar instrument, which is attached to a tube. The lower end of the said tube is open, and a little below the desired water line; when the water sinks below this line steam enters the tube, and by its heat expands the same. The upper end of the tube is closed, and provided with a socket, which carries the whistle. The socket commanicates with the steam space of the boiler, and is provided with a valve. The tube earlies a lever, which is arranged to open the valve and sound the whistle when the tube is clongated. The lever is held by a rod, which is attached to the lower end of the tube, and whose length is not affected by the admission of steam to the said tube. The tube is, preferably, constructed or brass. Upon the upper or closed end of the tube he fits the socket which carries the whistle. The said socket is provided with a branch or nozzle, whose onter end communicates with the steam space of the boiler; in this branch or nozzle he arranges the valve, which when closed prevents the passage of the steam to the whistle, but which when opened allows the steam to pass through the socket to the said whistle, and cause the same to sound. This valve is kept closed by a spring. The valve spindle or stem prejects through the branch or nozzle, and lies under the end of the lever, which is pivotted between or upon jaws or ears projecting from the socket. The rod which holds this lever is preferably made of fron; the said rod extends from the lower end of the tube to the lever, and is provided with a branch from the lower on of the lever to pass through, the top of the said aperture resting upon the top of the lever to pass through, the top of the said aperture resting upon the top of the lever to pass through, the top of the said aperture resting upon the top of the lever to pass through, the top of t ALARM APPARATUS FOR STEAM-BOILERS,-Mr. T. F. TAYLOR, of

MOTIVE-POWER ENGINE,—In his specification, Mr. G. J. WORSSAM, of Wenlock-road, City-road, says—In carrying out my invention I avail myself of the property of bodies or objects of a certain specific gravity when immersed in a fluid of a greater specific gravity to rise or ascend to the surface of such fluid; this buoyancy represents a greater or a lesser force or power, according to the greater of lesser difference between the specific gravity of the object and that of the fluid, and the size or the displacement caused in the fluid by such object. In order to make the said objects, which I will call floats, as light as possible, and yet strong enough to resist the pressure of water, I construct them of thin sheet metal, and in preference in the form of tubes or hollow cylinders with conical or flat ends; a number or series of these cylinders are higad or linked together in a similar manner as the buckets of a chain-pump; this chain or float is passed over two sets of pulleys, discs, or arms fixed to two horizontal shafts, the one placed vertically above the other, the said pulleys being formed to suit the shape of the floats; one-half of this chain of floats passes through the centre of the tank holding the water or other fluid, and the other half passes outside the tank thorough the air. The floats when in motion enter through the bottom of the tank in the manner hereafter described, and rise up by their buoyancy through the water; they been pass round the top pulley, descend outside the tank, and passing over the bottom pulley, againg-enter into the tank, and so on. Now, the principal part of my invention consists in passing the float through the bottom of the tank. On the bottom of the tank if a barrel or cylinder; this cylinder may be square or any suitable shape to fit one or more of the floats, and on every float if fix an ordinary cup leather, either made of leather, india-rubber, wood, metal. or any suitable shape to fit one or more of the floats, and conical at one or both ends to admit of the free ingress and egrees of the floats, and on every float I fix an ordinary cup leather, either made of leather, india-rubber, wood, metal, or any other suitable material. Supposing the floats to be in motion, the one float passing into the cylinder before the other has passed out would prevent very little if any escape of water, which escape could be pumped by a small pump into the tank again. The motion communicated by the rising floats to the float pulleys, discs, or arms and shaft is further transmitted by means of beits or gearing in the manner usual with other motive engines. The details of arrangement and construction of my new motive-power engine may be altered or varied, but the main feature of my invention consists in passing the floats through the bottom of the tank. I do not confine myself to fixing the cup leathers, made either of leather, india-rubber, wood, metal, or any other suitable material, on the floats themselves, as I may in some cases fix the leathers, india-rubber, wood, metal, or any other suitable material in the barrel or cylinder other than the bottom of tank, so as to form a water-tight joint round the floats passing through the cylinder or barrel.

HOLLOWAY'S OINTMENT AND PILLS-BILIOUSNESS AND DYSPEP SIA.—There is no organ in the human body so liable to derangement as the liver; food, fatigue, anxiety, and climate all disorder its action and render its secretions, the blie, more or less depraved, superabundant, or scanty. The first symptoms should receive attention. A pain in the side, or the top of the shoulder, a harsh cough, and difficulty of breathing are signs of liver disease, which are removed without delay by friction with hioloway's inestimable ointmath. The pills should be taken without delay. For all diseases of the vital organ the action of these conjoined remedies is a specific, by checking the over supply of bils, regulating its secretion, and giving nervous tone.

Mining Correspondenge.

BRITISH MINES.

BULLIA — B. Description of the confidence of the control of the co

EAST NEW WHEAL LOVELL.—C. Bawden, July 7: The men have not been able to costean the north ground; in consequence of the shelf being so deep, we are overpowered with water. This work has been done with a view to discover the East Lovell lode, which in that mine is worth 300l. per fathom. As soon as the engine is at work it will be advisable to sink a shaft in this ground. The masons are getting on well with the building of the engine-house.

EAST PROVIDENCE.—John Nancarrow, Wm. White, July 3: The following work was set to-day: "Boorman's shaft to sink below the 122, by nine men, at 222, per fathom. The 122 to drive north, by six men, at52, per fathom; ided 3 ft. wide, of a promising appearance, and yielding a little tin. The \$2 to drive east, by four men, at 38. per fathom; lode disordered by a crossing. The 70 to drive east to stope by two men, at 38. los, per fathom; lode worth 102, per fm. The 50 to drive east, by four men, at 38. los, per fathom; lode worth 102, per fm. The 50 to drive east, by four men, at 61, per fathom; lode small. The pitches look just as usual.

by four men, at 8£, per fathom; lode disordered by a crossing. The 70 to drive east, by x men, at 71, per fathom; lode worth 10£, per fathom. The back of the 70 east to stope by two men, at 3£, 108, per fathom; lode worth 10£, per fm. The 60 to drive east, by four men, at 6£, per fathom; lode small. The pitches look just as usual.

EAST ROSEWARNE.—C. Glasson, July 8: In King's shaft, sinking below the 115 fm. level, the lode is 10 in. wide, producing stones of copper ore, but not enough to value. In the 115 fm. level, west of shaft, the lode is not looking so well as it did last week; now 15 in, wide, worth 10£, per fathom. One stope in the back of this level, cast of shaft, are worth 6£, per fathom each. In the 105 fm. level, west of shaft, the lode is 15 in. wide, per fathom each. In the 105 fm. level, eact of shaft, and one in the bottom, are worth 6£, per fathom each. The 105 fm. level, eact of shaft, and one in the bottom, are worth 6£, per fathom each.

EAST WHEAL BASSET.—W. Nancarrow, July 7: In the 140 fm. level crosscut, south of new shaft, we have just cut a lode about 15 in. wide, of a kindly appearance, but at present of no value; we shall now begin to open east and west on it, when we hope it will soon improve. In the 130, east of new shaft, we are again driving south, as we think the south lode is yet to cut. In the 130, west of No. 2 cross-cut, the lode is 1½ ft. wide, producing stones of copper ore. The stope in the bottom of the 120, west of new shaft, is worth 8£, per fathom for copper ore. Nothing new in the 130 fm. level cross-cut north towards, the in lode.

EAST WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, July 7: The lode in the 125 east has improved, it is 18 in. wide, and worth very nearly 1 ton of copper ore per fathom; from the appearance of this lode in the level above we have every reason to expect an orey lode. There is no change in the 85 east; is worth 25£ tons of copper ore per fathom—a most promising lode. No lode has been takendown in the rise above this level; we have desued t

nearer the other look it will be softer saaln. There is a look known as ting rant, "State block, which is about 50 rathons south of our sing at at the surface; panalty of lead raised from this look a little further east, and there is a party working and raising lead on the same look move about 10 feathons east of us, the same look move and the same look of the same look on the same look move and the same look of the same look on the look of the same look on the look of the same look of the same look on the look of the same look of the same look of the same look on the look of the look of the same look of the same look on the look of the look of the same look of the look

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is down to the 30 fm. level; shaft cased and divided to this depth, and the men have just commenced to drive east and west on the course of the lode. In the end east the lode is 18 in. wide, worth 82, per fathom. In the end west the lode is 16 in. wide, worth 42, per fathom. In the 20 fm. level, driving east, the lode is 2 ft. wide, worth 42, per fathom. In the winze sinking in the bottom of this level the lode is 3½ ft. wide, worth 122, per fathom. In the 7 fm. level, driving east, the lode is 6 in. wide, uproductive,—Caunter Lode: In the 17 fm. level, from surface, the lode is 6 in. wide, productive goome good stones of tin.—South Lode: In the 18 in. wide, uproductive,—Caunter Lode: In the 18 in. wide, producing some good stones of tin.—South Lode: In the alti level, driving west of White's shaft, the lode is 1 ft. wide, worth 42, per fathom.—Sievens's Lode: In the 27 fm. level, driving east of Pump shaft, the lode is 3 ft. wide, producing tinstome that will just pay for stamping. GREAT WHEAL BADDERN.—W. Giles, J. Jenkin, July 3: In the 75 fm. level cross-cut, north from Hill Brothers shaft, we are glad to say the elvan is looking much better than when we wrote last—that is, more soft, and we believe it cannot be far from the lode; from the appearance of the elvan we believe it is much larger than in the level above, and we hope it will be so; when we reach the lode in this large elvan we shall have a good depth in the same. GWTIYIR PARK.—W. Smyth, July 6: The ground in the Gwyn Lilifon deep adit end is still very hard and spare for driving. There is no particular change in shiking.

HARWOOD.—W. Vipond, July 3: There is not much change yet in Mouncer;

In sinking.

II Ashking.

IIARWOOD.—W. Vipond. July 3: There is not much change yet in Mouncer; there is a little more rider about the veln, but whether it indicates that we are coming near one of the east and west velns or not it is impossible to say. We have sent 25 bings of ore to market, and 5 bings have gone for dues. I expect it will be all off next week.

IINGSTON DOWN CONSOLS.—James Richards, July 8: In the 149 fathom HINGSTON DOWN CONSOLS.—sames Richards, July 8: In the 149 fathom the content and better progress is being

In sinkling.

— W. Yipord, July 2. There is not much change, yet in Mouncer that is a little more riber about the veils, but whether it indicates that we are counting near one of the east and west veins or not it is impossible to any. We have sent 25 bings of ore to market, and 5 bings have gone for dues. I expect that the county of the

the lode, now worth 4L per fathom. The winze sinking below the 60, on this lode, has improved, worth 2L per fathom, and promising to further improve. We are getting on with the dressing of our next sampling, which will exceed the last.

NORTH RETALLACK.—G. R. Odgers, J. Harris, July 3: The 20 fathom level to drive north, by six men, at 70s, per fm: the lode is 15 inches wide, composed of quartz and good stones of lead. We hope now to make much more progress. NORTH RETALLACK.—G. R. Odgers, J. Harris, July 7: The lode in the 20, north from the No. 1 boundary shaft, is 15 in. wide, containing a little more lead than it did on Saturday—avaing work.

NORTH ROSKEAR.—R. Goldsworthy, R. Angove, July 7: During the past mouth the 240 fm. level, west from Doctor's shaft, has been extended 2 fms, 2 ft. 4 in.; total distance from shaft, 5 fms. 7 in.; the lode in this end is small and open, but we are pushing it on with all speed, to get under the tin ground laid open in the 230 fm. level. The 216 fm. level, west from Pearee's shaft, measures 1 fm. 2 ft. 8 in.; total distance from the shaft, 3 fms. 0 ft. 6 in.; the lode in this end is 1 ft. wide, composed of quartz, mundic, and peach, but not to value. The 140 fm. level cross-cut, south from Wheal Scton, towards our north lode, has been extended 1 fm. 1 ft. 4 in., and have about 8 fms. more to drive to reach the object; we are passing through a channel of very hard rock, in which our progress is slow. There is no alteration in any of the tin stopes. We sold, on July 2.9 tons 6 wats. of copper. 4 bs. of black tin, for 6251, 18s. 8d.; and weighed of 48 tons 3 cwts. of copper. 4 bs. of black tin, for 6251, 18s. 8d.; and weighed 11 yly 4 ton 6 or 10 fm. level end, east of shaft, continues to open up tribute ground. The lode in the 130 fm. level end, east of shaft, continues to open up tribute ground. The lode in the 130 fm. level end, east of shaft, continues to open up tribute ground. The lode in the 130 fm. level end, east of shaft, continues to open up tribute ground in the 1

being worth 13. per fathom.—North Shaft: In the 5s west the look is two the second to in the new or per fathoms. In the street deep look has not pet should be in the new or per fathoms. In the street deep look has not pet should be in the new or here, and that swealth cit to the low worth. It was all the street of the street is not of the street of the street is nown in the str

The 10 to drive east of ditto, by two men, at as, loss, part of the 10 drive east of ditto, by two men, at as, loss, part of the 12.

It also set 50 tribute pitches, at tributes varying from 8s, and upwards in 11.

It always to the Tamar Valley lode, is of a highly mineralised character. The intersection of the lode is looked forward to very shortly, as the distance, judging by the bearing of the lode as seen in the north shaft, is now very little. The cross-cut is extended 181% fms. There is no change worth mentioning in any other parts of the mine.

It has been a state of the mine.

TREWSTHA.—T. Foote, John Scoble, July 7: Friday last being our setting day, the following bargains and pitches were set. To sink the north engine-shaft under the 50 fm. level, 2 fms. stent, by nine men, at 22 per fathom, and to carry ground for plunger depth under the 50 fm. level, 9 fms. i foot. To drive, north at this level, 4 fms. stent, by four men; lode 2 feet wide, at present poor,

but a kindly lode. One stope in the back of this level, to four men, stemted 12 fms., at 17s. 6d, per fathom, worth 6 ewts. One stope to four men, stemted 12 fms., at 17s. 6d, per fathom, worth 6 ewts. of lead per fathom. The winter in the fathom—in disordered ground. This level to drive north, by four men, stemted 5 fms., at 44 per fathom; the lode 13 fms. at 44 per fathom; lode 25 fms. at 45 per fathom, at 50 fms. at 45 per fathom, at 50 fms. at 45 per fathom, at 50 fms. at 50 fms

navo not through the lode. We are getting on well with the dressing of the next batch of tin. Our machinery and pittowic are working west, the lode is looking all title more kindly, having a branch of mindie on the hanging wall is neches wite, with spots of copper oro intermixed. No change in the cross-cut with spots of copper oro intermixed. No change in the cross-cut is necessary to the composed principally of capel, quartz, and arsenical mundic, with spots of copper ore intermixed—a strong and kindly lode. In the 120 cast we commenced rising against the winze in 1980 to day; ground favourable, with a good lode in the bottom of the winze. No change in the 96, cast or west, on the south lode, on well with our dressing, and hope to sample between 60 and 70 tons at the end of this month.

WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, July 3: The lode in the 190 cast is 3 ft. wide, worth 9f, per fathom. The old in the 190 cast is 3 ft. wide, worth 9f, per fathom. The old in the 190 cast is 3 ft. wide, worth 9f, per fathom. The wide of June 26. The lode in the 3 west, and far rise and advised of June 26. The lode in the 4 west is worth 3f, 10s, per fathom. In the 90 fm. level cross-cut north the ground continues of the same favourable character, and which is yielding more tin than we expected, hence we hope shortly to cut the main part of the lode. The dropper cast is worth 12f, per fathom, and is inches wide. The lode in the 4 west, and an advised the same and a supplied to the shaft, the ground in the 90 fm. level cross-cut, north from she main lode, and all the other places in the 190 fm. level cross-cut, north from she main lode, and all the other places in the min part of the lode. The ground in the south cross-cut is not so favourable for driving as it has been, composed of kills and spar, and letting out a little more water. The engine and pitwork are in good working order. I would, in conclusion, observe that due regard shall be paid to the economical working of the mine.

St. driving next of shaft, the lode

alteration of the pumping-engine after next week, as part of the new work is on the mine, and the remainded will be sent in a few days. The prospects of the mine continue to look well, and we hope to return in the next quarter not less than 70 tons of tin. The Hind's 70-in. cylinder engine is nearly all on the mine, and we have set the house to build. The masons will commence next week.

COAL IN SOUTH STAFFORDSHIRE AND SHROPSHIRE.

The Dudley and Midland Geological Society, last week, made one of the most interesting excursions they have ever undertaken. It was interesting both as a purely geological excursion and as one bearing upon the future mineral resources of the Black Country. By the kind permission of the Earl of DUDLEY, through Mr. FREDERICK SMITH, permission of the Earl of DUDLEY, through Mr. FREDERICK SMITH, his lordship's principal agent, the members were permitted to visit and inspect the second trial, or proof heading, driven across the western boundary fault into the Permian beds in his lordship's Himley Colliery. The party were taken to No. 3 Pit of the colliery by the Earl of DUDLEY'S private railroad. About 74 descended the shaft. When they reached the bottom they found themselves in spacings and wall-illusingted passages leading to huge caverns or chamiltonia.

ley Colliery. The party were taken to No. 3 Pit of the colliery by the Earl of DUDLEY's private railroad. About 74 descended the shaft. When they reached the bottom they found themselves in spacious and well-illuminated passages leading to huge caverns or chambers, where the whole thickness of the 30-ft. seam is being taken out. In one large chamber no less than 6 yards of thick coal had been purposely dislodged, and lay ready for loading into the tubs. The space was lighted, with a wonderfully beautiful effect, by red and blue lights. A partly exhausted chamber, or side of work, where several pillars have been left standing, and where the fallen roof or debris of the mine lay in immense blocks of rock, was similarly illuminated. By the aid of the lights the eye was carried far into the innermost recesses of the mine, and gave a conception of what may be truly termed the grandeur of an illuminated thick coal mine.

The next and greatest object of interest was the examination of a trial headway driven from the floor of the Thick coal across the western boundary fault of the coal field, into what was unanimously considered to be the Permian beds, at a depth from the surface of about 190 yards. After carefully examining the passage from the coal measure rocks into the red beds, and making a selection of characteristic specimens of the ground driven through, the party were conveyed to the surface, and took lunch together (provided by the Earl of DUDLEY) in the engine-house adjoining. The repast over, Mr. W. SPRUCE, the mine agent at the colliery, and his son, Mr. G. SPRUCE, explained a number of plans and sections which hung round the room. These interesting records had been prepared with considerable care, and were intended to illustrate the difference of the termination of the coal measures against the Permian beds, as compared with that shown by a section made by Mr. J. HUGHES sometime ago, of another proof heading driven into the same red rocks 300 or 400 yards south of the one inspected that day. The differenc general discussion ensued as to the indications which these explora-tions along the western boundary fault of the South Staffordshire coal field, and those along the eastern side of the Shropshire coal field, gave of coal being likely to exist in the great tract of New Red Sandstone and Permian country lying between the two coal fields. Mr. Spruce, Mr. Henry Johnson, Mr. Jefferres, Mr. Parron, and Mr. Checkley discussed the subject at considerable length. Mr. Mr. CHECKLEY discussed the subject at considerable length. Mr. RANDALL, of Coalbrookdale, gave a very interesting resume of his inspections and explorations along the eastern boundary fault of the Shropshire coal field. He thought that there was clear evidence of part of that coal field being terminated by denudation, for the lower coal of that field extended for nearly a mile further east than the uppermost coal, and so in proportion with the intermediate coals. This, he said, was what had been called the Simon fault, and not a clean cut degrate over the state of the said, was what had been called the simon fault, and not a clean cut he said, was what had been called the Simon fault, and not a clean cut downthrow fault, like the one they had seen that day. He had, however, great hopes that coal would be found in patches, and wholly in the northern portion of the unexplored region. Mr. RANDALL'S remarks were listened to with considerable interest. Prof. BECKETT was then asked for his opinion. Probably because he did not agree with the opinions generally expressed, Prof. BECKETT said that he thought it was a waste of time to discuss the matter. This sentiment was by no means shared in by any of the other visitors. Votes of thanks to the entertainers were passed, and the company separated.

MANUFACTURE AND APPLICATION OF EXPLOSIVE COMPOUNDS.

The washing process adopted in the manufacture of gun-cotton and other forms of pyroxyline, which occupies much time and atten-tion, requiring a large and continuous supply of cold running water, and which is carried on for several days at considerable expense, is, it is claimed by the invention of Mr. G. CLARK, of Northumberlandand other forms of pyroxyline, which occupies much time and attention, requiring a large and continuous supply of cold running water, and which is carried on for several days at considerable expense, is, it is claimed by the invention of Mr. G. CLARK, of Northumberland-street, Strand, entirely obviated and rendered unnecessary, and a part of the excess of acids adhering to the pyroxyline, after its withdrawn from the water in the washing process, it timed may be being washed way with the water in the washing process, it timed to the water in the washing process, it timed to the water in the washing process, it timed to the water in the washing process, it timed to the water to prevent its oxidisation, he allows part of the diluted acids to drain off in a strainer, leaving the compound in a mots state. He then adds to and mixes with the compound, by frequent stirring and agitation, carbonate or bic-arbonate or chromate of potash—that is, one only or more than one of those others are compound in a mots state. He then adds to and mixes with the compound, by frequent stirring and agitation, carbonate or bic-arbonate chlorate, creament of the quantity of diluted acids adhering to the pyroxyline in its aforesaid moist state. The rule to regulate the said proportions is the chemical equivalent of the potash contained in the earbonate, bic-arbonate, chlorate, or chromate of potash—that in the proxyline as aforesaid to the nitric acid adhering from affinity nitrate of potash intracty combined with the promotion resulting from affinity nitrate of potash intracty combined with the promotion resulting from affinity nitrate of potash intracty combined with the promotion resulting from affinity nitrate of potash intracty combined with the promotion resulting from a properties of the pyroxyline so treated as an explosive compound by rendering it less sensitive to atmospheric inducese, and more unitally and provent and the process improves the properties of the pyroxyline so treated as an explosive compound by rendering it les

With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Messrs, Jones and Bidder's Invention for Prevention of Colliery Explosions: Gunpowder and Blasting Superseded (illustrated)—The Working and Ventilation of Coal Mines—Mining in Devon and Cornwall: the New Stannaries Act—Prof. Smyth's Lectures at the Royal School of Mines—The Midland Institute of Mining Engineers—South Midland Institute of Mining, Civil, and Mechanical Engineers—South Staffordshire Institute of Mining Engineers—Boiler Explosions: Anti-Incrustation Compositions—Accidents in Coal Mines—Practical Engineering: Oblique Arches—Bourne's Recent Improvements in the Steam-Engine—Artificial Fuel—Homfray's Manufacture of Coke—Foreign Mining and Metallurgy, &c.

The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, JULY 9, 1869.

J		
:	COPPER. £ s. d. £ s. d.	IRON. Per ton.
1	Best selectedp. ton 76 0 0	Bars Welsh, in London 6 15 0
1	Tough cake and tile 74 0 0-	Ditto, to arrive 6 15 0
ı	Sheathing & sheets. 78 0 0- 80 0 0 Bolts	Nail rods 7 2 6- 7 5 0
, 1		" Staffd. in London 7 10 0-8 0 0
. 1	Bottoms	Bars ditto 7 7 6-8 0 0
1	Burra Burra 78 0 0- —	Hoops ditto 8 0 0- 9 15 0
١.	Wireper lb. 0 1 0 - 0 1 01/4	Sheets, single 9 0 0-11 0 0
1	Tubes 0 0 11½- 1 0	Pig No. 1, in Wales 3 15 0-4 5 0
. 1		Refined metal, ditto 4 0 0-5 0 0
1	BRASS. Per lb.	Bars, common ditto 6 0 0-6 5 0
1	Sheetsper lb. 9d	Do. mrch. Tyne or Tees 6 10 0
1	Wire , 81/4d81/4d.	Do., railway, in Wales 7 5 0-7 10 0
1	Tubes , 101/2d111/2d.	Do., Swed. in London. 9 17 6-10 0 0
. 1	Yellow Metal Sheath.p. lb. 7d	To arrive10 0 0
.	Ol 01/3 02/3	Pig, No. 1, in Clyde 2 11 6-2 18 6
		Do. f.o.b. Tyne or Tees 2 9 6 Do. Nos. 3.4.f.o.b. do. 2 6 6- 2 7 0
,	SPELTER. Per ton.	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7 0 Railway chairs 5 10 0-5 15 0
.]	Foreign on the spot£21 0 0	
, 1	" to arrive 21 10 0	
, 1	ZINC.	Indian Charcoal Pigs,
1	In sheets £26 0 0-26 10 0	in London, p. ton 6 0 0- 6 10 0
١		STEEL. Per ton.
. 1	TIN.	Swed., in kegs(rolled)
	English blocks123 0 0	(hammered) 14 15 0-15 5 0
. 1	Do., bars (in barrels)124 0 0	Ditto, in faggots15 15 0-16 0 0
	Do., refined	English, spring19 0 0-23 0 0
1	Banca	
1	Straits130 0 0	QUICESILVER (p. bottle) 6 17 0
1	TIN-PLATES.* Per box.	LEAD. Per ton.
1	IC Charcoal, 1st qua. 1 8 0-1 10 0	English Pig, com19 0 0
1	IX Ditto, 1st quality 1 14 0- 1 16 0	Ditto, LB
1	IC Ditto, 2d quality 1 6 0-1 8 0	Ditto, WB20 10 0
1	IX Ditto, 2d quality 1 12 0- 1 14 0	Ditto, sheet19 15 0
1	IC Coke 1 2 6-1 4 0	Ditto, red lead20 0 0-20 10 0
1	IX Ditto 1 8 6- 1 10 0	Ditto, white27 0 0-30 0 0
1	Canadaplates,p.ton13 10 0	Ditto, patent shot22 10 0
. 1	Ditto, at works 12 10 0	Spanish18 10 0
	* At the works, 1s. to	o 1s. 6d. per box less.
ı	Department A mother butter for	line has been monifested in the

REMARKS.—A rather better feeling has been manifested in the Metal Market during the past week, and business has assumed a more encouraging appearance, and although the number of transactions has not been very large, yet there has been a decided increase, while the prospect for the future is more favourable. We are still without orders from India to any extent, although the intelligence from thence has not been very large, yet there has been a decided increase, while the prospect for the future is more favourable. We are still without orders from India to any extent, although the intelligence from thence is by no means unsatisfactory; we, therefore, hope that we shall soon see an improvement taking place, and that orders will begin to arrive in good numbers. The continued ease of the Money Market, with the prospect of a further reduction in the Bank rate of interest taking place ere long, should have the effect of encouraging transactions, and doubtless it will do this eventually; and as soon as an improved demand springs up this condition of monetary affairs will be sure to have its full weight in promoting an increase in business. For the present there is very little speculative movement in the market, and unless something should arise to cause a stir in some of those metals which are generally chosen for speculative operations, we shall remain without any of those nids to liveliness which, although of a transcient character, have the effect of producing a spurt we shall remain without any of those aids to liveliness which, although of a transcient character, have the effect of producing a spurt in the market, which causes considerable activity for a time, and often leads to a large amount of business being done. Prices without having materially altered during the week have in some instances manifested a greater degree of firmness, which will result in advances taking place as soon as more activity is shown in the trade. The present month is one in which in former years a good business was generally done in metals, and we trust that before the month has closed it will be found that a considerable improvement has taken place in the condition of the market.

COPPER.—A telegram received from Valparaiso, dated June 3.

place in the condition of the market.

COPPER.—A telegram received from Valparaiso, dated June 3, states that the charters for copper in the last half of May were 1400 tons, and the consequence has been that the market has become rather firmer, and sellers are not disposed to make any concessions in prices. Ore is quoted at 13s. 9d. per unit, and Chili bar 68l.

IRON.—In Staffordshire the Quarterly Meetings of Ironmasters have been held during the week—at Wolverhampton on Wednesday, and at Birmingham on Thursday. The attendance at both places was large, and the trade was well represented. Buyers, however, were but few in number, and those present appeared more desirous of ascertaining upon what terms contracts could be made than of entering into actual engagements. The general tone of the meetings were but few in number, and those present appeared more desirous of ascertaining upon what terms contracts could be made than of entering into actual engagements. The general tone of the meetings was, however, more cheerful, and the impression appeared to be that there was a prospect of future improvement in the trade. In anticipation of quarter-day orders have been sent to several of the principal makers, and the second-class firms are moderately well engaged, and, judging by the tone of the meetings, they are not desious of obtaining an accession of orders at quite such low prices as they would have accepted three months ago. In Welsh the position of the trade keeps tolerably steady, the works being in regular employ, and there is every prospect of their continuing so. The exports on account of the Russian and American markets are still large, and from the other foreign markets there is about the average demand. In the rail department prospects are considered favourable, and the contracts already received will keep the works going for some months to come. Prices are firm, and when shorth delivery is required makers will not book engagements except at advanced rates. In Swedish iron the demand is very good, and considerable sales have taken place. In Scotch pig-iron there has been a moderate amount of business done during the week. The last price received from Glasgow was 50s, 8d. cash.

LEAD.—A very good business has been done in pig during the week, and prices show a tendency to become firmer.

TIN.—The market has remained quiet during the week, and transactions in Straits have been very limited, still holders are firm at 130l. cash, under which business cannot be done.

SPELTER continues still without evincing any degree of activity; prices are, however, firm at 21l. for parcels on the spot.

SPELTER continues still without evincing any degree of activity; prices are, however, firm at 21% for parcels on the spot.

TIN-PLATES.—At the Quarterly Meetings of the trade representations as to the present position of the trade were very unsatistory, the relative price of tin-plates, as compared with that of the raw article, being lower than hardly ever known before; and though the expert has considerably increased, many of the works have not the export has considerably increased, many of the works have not been more than half employed, which indicates that the multiplica-tion of new works has been far too rapid in proportion to the in-crease in the demand. It was, therefore, resolved that as the ruling prices are still unremunerative, the meeting recommends that the reduction of make shall continue until such time as prices improve STEEL and QUICKSILVER in moderate request only.

THE IRON TRADE—(Griffiths' Weekly Report).—The Birmingham Quarterly Meeting was held in the Town Hall, on Thursday last, and passed without any incident requiring especial remark. The meeting was not larger than usual at this eason of the year; and although the tone of the meeting was satisfactory, there was no disposition on the part of buyers to secure large parcels of common Staffordshire bars for forward delivery, in prospect of higher prices. Some good orders were placed with 'Bloomfield.' The "Noble Earl' and the well known "S. C. Crown" brand was, as usual, in good request at this meeting. The most favourable feature here was the large business done in pigniron. The Lilleshall Company sold upwards of 13,000 tons of their famous Shropshire iron, a very large portion of this being for Staffordshire delivery. One of the Northern hematite firms likewise placed some large parcels of pig-iron here. Our market has been quiet during the week, with very little actual business doing, scarcely any new enquiries for iron having turned up. The nail market continues firm, and the prospects of this branch of the trade encouraging. A

further reduction of the Bank rate of discount was expected this week, but the inaction of the Court of Directors in this respect has had no effect on values o any kind, the probability being still in favour of a further reduction in the rate We have no improvement to report in the market here for tin plates.—75, Old Broad-street, London, July 9.

THE COPPER TRADE.—Messrs. Vivian, Younger, and Bond—Last Friday, after our report was written, a better feeling was manifested for copper, and has continued throughout the week. Prices are, however, not much higher, although somewhat more in favour of sellers. A tolerably good business has been done in all sorts of copper, the greater part being for speculation. In ores several cargoes of Chilian, and one of Cape, were done at 13s. 9d. Yesterday we closed firm. English manufactured can only be quoted nominally.

ores several cargoesot Chillan, and one of Cape, were done at 13s. 9d. Yesterday we closed firm. English manufactured can only be quoted nominally.

Messrs. James and Shakspeare—The charters from Chili for the last fortnight in May were advised by telegram on the morning of the 2d Inst. as 950 tons in bars and ingots, and 450 tons in ores and regulus. This being a comparatively moderate quantity imparted some animation to the market, and athough smelters do not generally seem inclined to pay above 13s. 6d. for furnace material on the spot, yet for distant arrival a cargo of regulus is reported at 13s. 9d. per unit, and about 1100 tons, of ore on spot, and of high per centages at same figure. In bars there has been a very fair business done at 67l. 10s. to 68l. cash, irrespective of brand, and 69l. to 69l. 15s., with extended prompts, the quantities sold amounting to about 900 tons; but as a large portion of the sycok is in second hands and held in London, it is difficult to give particulars with precision; in fact for some time past the chief transactions have been done in this city. Ingots of the Urmeneta brands have sold at 74l. delivered in Birmingham, and 72l. has been refused for Lota in warehouse, with customary conditions. In Australian a large quantity of Wallaroo was sold on terms which have not transpired. English is in fair demand, and 78l. paid for several parcels of manufactured for shipment to Bombay and Calcutta; at a reduction of 1l. to 2l. per ton from said price there are large orders in the market which cannot be executed. There is also more enquiry for sheets and bottoms for the Levant, and this demand, which some years ago was an important element in the cheat, and this demand, which some years ago was an important element in the cheat.

CHEMICALS AND MINERALS-J. Berger Spence and Co.'s Report.-CHEMICALS AND MINERALS—J. Berger Spence and Co.'s Report,—Chemicals: During the last few days a slight re-action in the home trade has taken place, chiefly owing to the stocks having been low, and consumers deferring their orders until the turn of the half-year. For foreign demand an average business.—Soda: Soda ash, limited sales at 7t. to 7t. 5s. per ton for 48 per cent. Salt cake, 2t. 17s. 6d. Caustic soda, not much doing, at 13s. 3d. to 13s. 9d. Crystals, 4t. 5s.—Nitrate of Soda: Very firm, at 14s. 6d., with an upward tendency.—Potash: Muriate remains at 2t. 17s. 6d. for 80 per cent.—Saltpetre Bengal, at 21s. to 22s. Refined, 27s. 6d. No business doing.—Alum: An average trade for home and foreign, at 7t. to 7t. 2s. 6d., in barrels. Loo~hum, 6t. 5s. Ground, 7t. 5s.—Ammonia: Sulphate is firm, at 16s. to 16s. 6d.—Copperas: Duil, at 51s. Rusty, 52s. Dry, 45s.—Pyrites: In fair demand, at 8d. per unit; and copper pyrites, at 7½d. per unit.—Lime: Phosphate at 2s. 6d. for 65 per cent. Bleaching Fowder, 8t. 15s. to 9t.—Manganese: For 40 per cent., 40s; and for 70 per cent., 100s.—Ellesmere Chambers, King-street, Manchester, July 8.

The MINING SHARE MARKET continues dull and depressed, and prices with few exceptions are merely nominal. The transactions recorded have been in West Chiverton, Chiverton Moor, Wheal Chiverton, Grenville, Wheal Buller, Van Consols, East Lovell, New Lovell, West Frances, East Grenville, East Caradon, Chontales, Fron-tino and Bolivia, Don Pedro del Rey, Prince of Wales, Tincroft, and

one or two other mines.

There was no sale of copper ores this week, and will not be again till the 22d inst. The statistics published in the Mining Journal last week show a great falling off in the sales both of Cornish and foreign ores, and the miner may well seek in vain for a reasonable cause for the continued low standard. During the quarter ending June 30 the copper ores sold in Cornwall realised the sum of 99,5734,13s, against 141,2811.0s. 6d. in the corresponding quarter of last year. At Swansea the sales of foreign ores realised the sum of 95,2081.3s, against 140,0231. 10s. 6d. in the corresponding quarter of last year, making a total reduction in the quarter, as against the June quarter of last year, of 87,5221. 15s. Anglo-Brazilian Gold are quoted, 10s. to 12s.; Chiverton Moor, 2½ to 3; Chontales Gold, 25s. to 30s.; Cook's Kitchen, 13 to 14; Drakewalls, 15s. to 17s.; East Caradon, 6½ to 7; East Lovell have advanced to 1½ to 15; Frank Mills, 3½ to 4½; Frontino and Bolivia, 24s. to 26s.; Great Laxey, 17½ to 18½.

Prince of Wales, 24s. to 26s.; the 65 west has got through the western part of the cross-course, after having been previously wears the attention of the report of last week, when the lode was said to be again in the cross-course, after having been previously wearst and the search of the report of the report of the report of the cross-course, after having been previously wearst and the search of the report of the report of the report of the report of the cross-course, after having been previously wearst 200. The foreign of the report of the one or two other mines. There was no sale of o

and Bolivia, 24s. to 26s.; Great Laxey, 17½ to 18½.

Prince of Wales, 24s. to 26s.; the 65 west has got through the western part of the cross-course, and, as far as seen, is worth 20l. per fathom. In explanation of the report of last week, when the lode was said to be again in the cross-course, after having been previously reported as through it, and worth 20l. per fin., and which had an adverse influence on the shares, we understand in the 30, where this cross-course was first seen, it was all in one; in the 45 fathom level, it split into two parts, with 4 feet of good lode between, and a rich course of ore beyond them. In the 55 it was in one part only, but but in the 65 it is again in two parts, with 6 ft. of good lode between them; and, as the lode has now got through the second part, worth 20l. per fathom, the agent looks for an improved course of ore. Great North Laxey, 21s. to 23s.; Great Wheal Vor, 13½ to 14; Herodsfoot, 42 to 44; Marke Valley, 3½ to 3½; Mineral Bottom, 2½ to 2½; New Lovell, 34s. to 36s.; North Crofty, 15s. to 17s.; North North Treskerby, 11s. to 13s.; Providence Mines, 33 to 35; Rosewall Hill and Ransom, 25s. to 30s.; Tincroft, 15½ to 16½; West Chiverton, 47½ to 49; West Frances, 50 to 52. East Wheal Seton, 18s. to 21s.; at the meeting the accounts showed 1077z. 6s. 4d. against the company, and a call of 3s. per share was made. The eastern shaft has been sunk to a depth of 17 fms. under adit (or 35 fms. from surface), and in the 20 a cross-cut will be driven to the junction of Harvey's and Simmons' lodes, of Wheal Seton. West Seton, 175 to 185; Wheal Buller, 11 to 13; Wheal Chiverton, 3½ to 3½; Wheal Grenville, 47s. to 49s.; Wheal Kitty (Lelant), 6t o 7; Wheal Kitty (St. Agnes), 4½ to 5; Wheal Mary Ann, 14½ to 15. Don Pedro del Reys declined more than 10s. per share a few days ago, but have recovered, and leave off 4½ to 4½. It would appear from the circular issued by the directors that interested parties had been addressing letters to the shareholders with a view of inducing them to s

and he adds—"I have no hesitation in saying, provided the lode proves as productive in the 20, 30, and 40 fm. levels (and I have not the slightest doubt it will be found much more valuable) there would the slightest doubt it will be found much more valuable) there would be no difficulty in increasing the returns to 600 tons or 800 tons, or even a larger quantity, per month." Capt, John Vivian values the lode 15 fathoms deep at from 12 tons to 14 tons per fathom, and considers there would not be any difficulty in realising from 700 to 1000 tons per month, should the lode continue rich to the 40. The cost of getting the ores to the port of shipment will not exceed, it is said, 10s, per ton, and they can be shipped at all seasons of the year. Looking at the reports of these practical agents, it would really seem that the mines now offered to the public only require to be properly developed and worked to be made the most productive mines of the day; and it is to be hoped that the directors, among whom we recognise two highly respectable members of the Stock Exchange, will see that the management and practical working of them shall be placed in good and proper hands. The concession from the Sultan is for 99 years, from June 9 last, at a royalty of 2 per cent.

The Market for Mine Shares on the Stock Exchange during the week has been very quiet. There has been some material fluctuations

in United Mexican, Don Pedro, St. John del Rey, &c., but at the close the market assumed a more settled aspect. Van shares are in demand, owing to the continued improvement in the mine; the lode in the 30, or bottom level, is opening up even better than was expected. Driving has been commenced both east and west in a lode unparalleled for richness, and all other points of operation are unchanged. Price of shares, 37 to 38. West Chiverton shares are rather firmer at 48 to 49. Great Vors are 13\frac{1}{4} to 14\frac{1}{4}. Great Laxeys are flat at 17\frac{1}{4} to 18. East Lovell shares have risen to 14, 15. Prince of Wales shares have risen to 24s., 26s. In Foreign Mines, United Mexican shares rose to 3; the sudden rise brought in a few sellers, and a reaction in price, closing 2\frac{1}{4} to 2\frac{1}{4}. St. John del Reys rose to 18, from which a reaction set in, closing 16\frac{1}{4}\$ to 17\frac{1}{4}\$. Don Pedro shares fell from 4\frac{1}{4}\$. prem. to 2\frac{1}{4}\$, and subsequently ralled to 3\frac{1}{4}\$, 3\frac{1}{4}\$. Rossa Grande, \frac{1}{4}\$ to \frac{1}{4}\$, and are fairly good. Taquaril in fair request at 2s. 6d. to 3s. 6d. prem. General Brazilian, 3s. 6d. to 4s. 6d. prem. and in demand. Port Phillip, 19-16ths to 11-16ths; a few shares offering has rather depressed the market. Chontales shares are flat at 1\frac{1}{4}\$ to 1\frac{1}{2}\$. Yudanamutana, 1\frac{1}{4}\$ to 1\frac{1}{4}\$; Pestarena, 1\frac{1}{4}\$ to 1\frac{1}{4}\$. Frontino shares are in good demand, and maintain the late rise, closing firm at 24s. to 26s. The features of the market otherwise are unimportant. unimportant.

IRISH MINE SHARE MARKET.—A considerable amount of business was done in mining securities, but prices were particularly unsteady, and leave off in favour of buyers. General Mining Company for Ireland shares, which last week were ineffectually enquired for at 15s., have this week been sold at 10s., at which price they remain firm. In Cape Copper shares nothing was done. Wicklow Copper shares (2l. 10s. paid) ranged from 9l. 17s. 6d. to 10l. 12s. 6d., but leave off on sale at the latter price. Connorree shares have been taken, and are still on offer at 2s. Mining Company of Ireland shares (7l. paid) closed, on last Saturday, at 10l. 17s. 6d., but after several changes they have declined to 10l., at which, however, they remain firm. The meeting of the Mining Company of Ireland is referred to in another column.

The large field for the profitable employment of English capital to be found in the immense mineral resources of the Turkish Empire has frequently been referred to in the Journal, and the first Anglo-Turkish mining company—the IMPERIAL OTTOMAN MINING COMPANY—has now been established. The object of the enterprise is to work the celebrated silver-lead deposits of Pelidli, between Scutari and Ismidt, in Asiatic Turkey. The mines are within 28 miles of Constantinople, and only eight days' journey from London, so that every facility will be possessed for exercising complete control over the operations at the mines. The capital consists of 100,000/., in shares of 1/l. each, and the first issue is fixed at 70,000 shares, of which 35,000 only remain for allotment. The shares are to be fully paid on allotment, and share warrants to bearer will be at once issued. The property is within nine miles of the shipping ports of Touzla, Eski-Hissar, and Deridja, where the ores can be shipped at all seasons of the year. The imperial firman, under which the mines are held, has been extended, under the new Turkish mining laws, for 99 years from June 9, 1869. The grant has been acquired by the all seasons of the year. The imperial firman, under which the mines are held, has been extended, under the new Turkish mining laws, for 99 years from June 9, 1869. The grant has been acquired by the company for 5000l in cash, and 35,000 fully-paid shares, and confers the right of working for silver, lead, copper, and zine, at the very small royalty of 2 per cent. on the ores raised. The very important right of felling timber for the use of the mines has been granted, and the grant also embraces an extensive additional area adjoining Perlidli of 6000 denums (420 acres) upon the same favourable terms. The mines have been inspected and favourably reported on by Capts. Thos. Richards, James Pope, John Vivian, and W. Fischbach, who concur in the opinion that it is only necessary to erect the machinery, lay out dressing-floors, and work the mines in an energetic manner, to realise large and permanent profits. The board of direction contains the names of gentlemen of position and influence in the City, and the company is generally considered to be of a character calculated to promote the successful development of the mines, and to inspire in Turkey confidence in English companies. The directors appear to have taken every possible means to ascertain the real merits of the property. Its capabilities may be judged from the fact that it is computed between 200 and 300 tons of high percentage silver-lead ore can be raised and dressed per month from ground already opened, the lode cut into being about 24 ft. wide, carrying ore for the entire width. It is upon these grounds that the practical authorities who have inspected the mine state that in an unusually short period "it will be equal to, if it does not surpass, the best mine in Cornwall."

The PRUSSIAN MINING AND IRON WORKS COMPANY (Preussische Bergwerks und Hutten-Actien-Gesellschaft) has published a prospectus, which will be found in another column of this day's Journal, for the issue of, at 89½ per cent., 180,000% worth of FIVE PER CENT. FIRST MORTGAGE BONDS, authorised by resolution of the general meeting of May, 1868. The bonds are to be paid off at par within a term of 37 years, commencing with 1870, the numbers of the bonds to be paid off each year being determined by lot drawn at the general meeting. The payment of the interest-coupons on July 1 each year, and of the amortized bonds, will be made in Germany in Prussian currency, and in London in pounds sterling, at the fixed exchange of 6½ thrs. per 1%. As an investment these bonds give, it will be found, a return of about 5%, 12s. per cent, and the security is unquestionable. The company has two collieries now at work on the Cologne and Minden Railway embracing royalties of 4500 acres, and a third of 3000 acres, in which two shafts are partly sunk; there are also the Vulkan Iron Works (with blast-furnaces, foundry, &c., in full work) near Duisburg, on the Rhine, at the mouth of the Ruhr, with railway communication with all the main lines; and the company have also numerous and extensive iron mines in Rhine Province, Siegerland, Nassau, Hessen, and Hanover. It is explained that the company's four establishments—that is, the Erin, Hansa, and Zollern Collieries, and the Vulkan Iron Works—when brought into full operation will represent a total expenditure, including that of the previous companies, of nearly 5,000.000 thrs., or 750.0000. The PRUSSIAN MINING AND IRON WORKS COMPANY (Preussische and Zollern Collieries, and the Vulkan Iron Works—when brought into full operation will represent a total expenditure, including that of the previous companies, of nearly 5,000,000 thrs., or 750,000l, whilst they will not stand in the books of the present company at much more than half that amount. This fact, and the now tested value of the coal and iron mines, with the production of the iron works, induces the company to expect, on a moderate calculation of profits (which long experience of the Westphalian industry enables the direction with confidence to make and rely upon), a steadily rising dividend, with the development of the mines and works, up to 18 or 20 per cent. on the share capital, after deducting the amount of interest and amortization for these obligations, and the tantiemes and reserve funds required by the statutes. and reserve funds required by the statutes.

At Cwm Erfin Mine half-yearly meeting, on Tuesday, a further dividend of 10s. per share was declared.

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At Foxdale Mines (Isle of Man) quarterly meeting, on July 3, the directors declared a dividend of 10s. per share, payable on the 13th inst.

At Wh eal Kitty (Uny Lelant) meeting, on Tuesday, the accounts for the three monts ending April showed a credit balance of 747. 6s. 9d. The profit on the three months' working was 480l. 11s. 7d. A dividend of 512l. (10s. per share) was declared, and 235l. 6s. 9d. carried to credit of the next account. Captain T. Richards and Son and W. Rosewarne reported upon the various Captain T. Richards anp Son and W. Rosewarne reported upon the various points of operation. They are prosecuting many points—and tee price of tin being good, they think it the right time to do so. During the low price of tin, elroumstances compelled their working narrowiny, which, in the last six months, have taken considerable outlay to put the mine in efficient order.

a profit on the five months of 1307t. Deducting the profit now shown (1307t.) and the calls paid since last account (1400t.), the debit balance is reduced from 9314t., at which it stood in February, to 6606t. on Thursday last. The meeting was very largely attended, 234 shares being represented out of 256, leaving only 22 shares unrepresented. Mr. F. W. Dabb was appointed auditor. The bankers' account is overdrawn 7046t. At Pendarves United Mine meeting, on July 1, the accounts showed

At South Carn Brea Mine meeting, on July 2, the accounts showed a debt balance of 1331. 8s. 3d. A call of 5s. per share was made. Capts. John Daw and John Michell say—"We shall sink the engine-shaft with all speed, as we believe this to be the most important point in the mine. The lode has just got to the depth where it greatly improved in the neighbouring mine, and we believe the next 10 fms. sinking will show good results."

At Wheal Uny quarterly meeting of adventurers, on Monday (Mr. Robert McCallen in the chair), the accounts showed that 64 tons 12 cwts. of black tin had been sold for the quarter, producing 4629f. 0s. 7d., against a cost of 3803f. 17s. 4d., leaving a profit of 825f. 3s. 3d. The balance carried over in favour of the mine was 808f. 1s. 5d. The agents value the lode in the shaft at 30f. per fathom, the stopes highly productive, and the estimated returns for the coming quarter at 70 tons of black tin.

The Bank of England return for the week ending on Wednesday rening showed in the ISSUE DEPARTMENT an increase in the "notes issued" evening showed in the ISSUE DEPARTMENT an increase in the "notes issued" of 121,0854, which is represented by a corresponding increase in the "coin and builion," on the other side of the account. In the BANKING DEPARTMENT there is shown an increase in the "other deposits" of 1,941,7344, in the "seven day and other bills" of 23,7545, and in the "rest" of 173,8951. together, 2,139,1144; and a decrease in the "public deposits" of 4,306,5181,--2,167,3991. On the other side of the account there was an increase in the "Government deposits" of 1,548,6261; and a decrease in the "other deposits" of 3,142,6221.

—1,593,9961, leaving a decrease in the total reserve of 573,631.

COAL MARKET.—The fresh arrivals this week only numbered 55 ships. The business of the market has been of a quiet character throughout, and prices remain without the slightest variation. Hetton Wallsend, 17s. 6d.; Haswell Wallsend, 17s.; South Hetton Wallsend, 17s.; Tees Wallsend, 17s.; Kelloe Wallsend, 15s. 9d.; Hetton Lyons Wallsend, 15s. 6d. Unsold, 5 cargoes; at sea, 50 ships.

Mr. J. R. Scott, the Registrar of the London Coal Market, has published the following statistics of imports and exports of coal into and from the port and district of London by sea, railway, and canal during June, 1869:—

IMPORTS.

By	Sea.		mal.				
	Ships.	Tons.		Tons cy	wt.		
Newcastle	194	98,078	London and NWestern	45,058	18		
Seaham	50	12,607	Great Northern	57,545	0		
Sunderland	120	55,031	Great Western	40,708	0		
Middlesborough	14	5,631	Midland	49,887	0		
Hartlepool	118	34,308	Great Eastern	22,746	19		
Blyth	1	431	South-Western	2,140	11		
Scotch	9	2,208	London, Chatham, & Dover.	_			
Welsh	8	2,233	London, Tilbury, and South-				
Yorkshire	19	2,178	end	115	0		
Small coal		227	South-Eastern	920	4		
Cinders	11	1,069	Grand Junction Canal	419	10		
Culm	1	245			-		
			Total	219,541	2		
Total	545	214,246					
Imports during			Imports during June, 1868	204,602	7		
June, 1868	600	231,750					
COMP	ARATIVE	STATE	MENT. 1868 AND 1869.				

By Sea.

Ships.

Tons.

Jan. 1 to June 30, 1868 3529 . . 1,468,139

Jan. 1 to June 30, 1869 3403 . . 1,432,938

Jan. 1 to June 30, 1868 . . 1,407,173 16 Decrease in pres. year 126 .. 35,201 Increase in present year. 168,417 18

DON PEDRO NORTH DEL MINING COMPANY.—A large number of communications have been received relative to the somewhat contradictory advices to hand by the last mail; but their publication is rendered unnecessary by the explanatory statement of the director (which appears in another column).

LEAD MINING IN WESTERN AUSTRALIA.—We understand Messrs. Elford, Williams, and Co., of Swansea, have lately had consigned to them about 600 tons of lead ore from the Geraldine Mine, in Western Australia, which has realised very satisfactory prices. The ore assays for lead nearly 80 per cent., with a little silver of no value. The reports from this mine are of a most favourable nature, the lode vielding from 1 to 8 tons per fathom. yielding from 1 to 8 tons per fathom.

LEAD MINING IN WALES.—The general meetings of the East Mid-Wales, Mid-Wales, and New Brynpostig Lead Mining Companies have been held during the week upon the respective mines, and the report of the meeting of the first-named company appears in another column. The satisfactory manner in which the Capel Banhaglog—the property of the East Mid-Wales Company—continues to open out elicited the commendations of the large number of influential shareholders who visited the mine. Mr. Job Taylor, Mayor of Dudley (the Chairman of the company), took occasion to congratulate those present upon the unusually favourable indications which their pro-(the Chairman of the company), took occasion to congratulate those present upon the unusually favourable indications which their property presented, considering the comparatively limited depth to which the operations have as yet been carried, and stated that its general appearance most favourably compared with the neighbouring property, the now celebrated Van, when that mine was in its infancy. A cordial vote of thanks was passed to Mr. Ross (the London manager) for the opportunity he had afforded the shareholders of visiting the mine in the company of the Chairman and executive, who had imparted so large an amount of interesting and satisfactory information.

formation.

GREAT WEST CHIVERTON SILVER-LEAD MINE.—This mine is situated in the manor of Mithian, parish of St. Agnes, Cornwall, and separated from the parish of Peranzabuloe by the valuable stream within the eastern boundary of Great West Chiverton. It comprises five known east and west lodes for a length of about 700 yards, two cross-courses, and a splendid caunter lode. On three lodes adits have been driven for a short distance, which by, further extending, will give backs of about 22 fms. Besides, by sinking the shaft on No. 1 lode 10 fms. deeper, and thence driving the 24 fm. level 50 fms. west, a back of nearly 50 fms, will be attained. When last worked a vugh was cut 14 fms. under adit, which let in so much water that the then adventurers, chiefly working miners, could not keep the mine in fork with their simple horse-whim for pumping power, and funds failing, in consequence of the financial panic, the sett had to be surrendered, although large lumps of silver-lead, worth nearly 20L per ton, are said to have been raised from No. 1 lode, which is 3 ft. wide. The present lessees are now engaged in putting up a trial steam-engine, preparatory to determining on the best spot where to erect a steam-engine of sufficient power to do justice to the highly-promising prospects of this mine, which is not parallel to but on the lodes of the celebrated "West Chiverton." The most recent report on the mine was made last summer by Capt. J. Juleff, manager of West Chiverton, who states he has no doubt that from 3000L to 4000L, judiciously expended, would make Great West Chiverton a valuable property. GREAT WEST CHIVERTON SILVER-LEAD MINE.—This mine is situ

PROVIDENCE MINES.—These mines comprise the ancient mines of Wheal Providence, Wheal Comfort, Wheal Laity, Wheal Speed, Good Fortune, and other small mines, which were consolidated in 1832; the present workings were thet commenced in 112 shares, and Mr. Samuel Higgs, of Penzance, was appointed the purser. The mines having subsequently improved in value, the shares were increased to 560, and afterwards to 1120.

The capital paid in by the original shareholders up to May, 1848, was 101. 68. 7d. per share, or

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Total amount expended before any dividends declared ... £102,220 2 10

Copper ore sold since May, 1848 ... £ 4,302 2 10

Tin 375,344 19 8

Sundries ,, 1,245 11 6 £380,892 14 0

copper was principally raised and sold up to that time, amounting to the sum of 51,775t. 15s. 5d., failed, and was abandoned. The success of this adventure may be mainly attributed to the judicious policy of the lords—Mr. Praed, the Basset family, Mr. Stephens, and Mr. Gilbert—in giving up the dues for a time, which enabled the adventurers to prosecute the concern, and bring it to its profitable state.

COPPER AGENCY, &c.

GENTLEMAN, connected for many years with the Copper Trade in a large and important manufacturing town, is DESIROUS of ACCEPTING AGENCIES for the SALE of THIS as well as OTHER METALS, &c. Apply, by letter in the first instance, to "Copper," care of Messrs. W. H. Smith and Son, Union-street, Birmingham.

PARTNERSHIP. PARTNERSHIP.

A N T E D, in place of a deceased partner, in a LONG ESTABLISHED IRON FOUNDRY, BOILER YARD, and ENGINE FACTORY, in the heart of a very populous and busy mining district, a Gentleman with £10,000 at command, and THOROUGHLY QUALIFIED to MANAGE the MECHANICAL DEPARTMENT with or without the aid of his partner, who will be often called to travel at home and on the Continent on the firm's business.

Apply, by letter only, with real name and address, to "Mechanic," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

TO RAILWAY COMPANIES AND CONTRACTORS

THE NORTH LONDON RAILWAY COMPANY
have SEVERAL LOCOMOTIVE ENGINES ON SALE, well suited for
CONTRACTORS or for BRANCH LINE TRAFFIC.
For particulars, apply to the Locomotive Superintendent at the Company's
Engine Works, Bow, E.—July, 1869.

TRON WORKS' GENERAL MANAGER WANTED.—WANTED by the CONSETT IRON COMPANY (LIMITED) a Gentleman thoroughly competent to UNDERTAKE the PRACTICAL as well as the COMMERCIAL MANAGEMENT of their extensive IRON WORKS (BLAST FURNACES, ROLLING MILLS, &c.), in the county of DURHAM.
Written applications may be forwarded up to July 22, under cover addressed to DAVID DALE, Esq., Darlington. They will be received in confidence, and must state fully the applicant's qualifications, experience, and references.

To a first-class man a liberal salary will be given.

WANTED TO BUY, a SECONDHAND STEAM ENGINE, in GOOD REPAIR, portable or stationary, with single or double action, and capable of driving 40 to 50 heads of stamps.

Particulars, with lowest price for cash, to be addressed "P.E.," 43, Grosvenor Park, Walworth-road, London, S.E.

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RECENT IMPROVEMENTS IN THE STEAM ENGINE,

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New edition, including many new Examples, among which are se most remarkable Engines exhibited in Paris in 1867. ng which are several

Works by the same Author, latest improved editions, fully illustrat CATECHISM OF THE STEAM-ENGINE, fep., 8vo., 6s. HANDBOOK OF THE STEAM-ENGINE, fcp., 8vo., 9s. TREATISE ON THE STEAM-ENGINE, 4to., 42s. TREATISE ON THE SCREW PROPELLER, 4to., 63s. EXAMPLES OF MODERN STEAM, AIR, AND GAS ENGINES, Parts I. to XVII., 4to., price 2s. 6d. each.

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SANTA ANA AND MARMATO MINES-ADVICE TO DIRECTORS, &c. 24mo., neat limp green cloth, 4s., With new map in colours, and outline lithograph

NEW GRANADA, EQUATORIAL SOUTH AMERICA. By WILLIAM LEAY, M.A., Oxon

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INVESTMENTS IN LEAD MINES.—
The DIVIDENDS paid by LEAD MINES for the year have DOUBLED in AMOUNT in the last ten years, and are likely to continue to increase. Some of the young lead mines will probably become profitable, and rise greatly in value in a short time. Full particulars, with a MAP of the Cardiganshire and Montgomeryshire districts (including Van, Dylliffe, Plynlimmon, East Darren, South Darren, Lisburne, Cwmystwith, Cefn Brwyno, and other mines), can be obtained price its.) on application to J. H. MURCHISON, Esq., No. 8, Austinfriars, London, E.C.

	LEAD	ORES.		
Date. Mines.	Tons.	Price per	ton.	Purchasers.
July 2-Minera		£12 11	6	Walker, Parker, &
- ditto	100	12 11	6	ditto
- ditto			6	ditto
- ditto			6	ditto
- ditto	70		6	ditto
- ditto			6	ditto
-Great North Laxey			0	Burry Port Company
5-Dyliffe			6	Walker, Parker, & Co.
- ditto			0	ditto
6-Maes-y-Safn	43		0	Panther Lead Co.
	40		6	ditto
	22			Mining Co. of Ireland
8-Van	1331/3	13 3	6	ditto
- ditto		13 3		Adam Eyton.
- ditto		13 3	6	Burry Port Co.
-Talargoch			0	Walker, Parker, & Co
- ditto			6	ditto
-Holywell Level	60			Adam Eyton.
-Bryn Gwlog			0	Walker, Parker, & Co
-Trelogan	30			Adam Eyton.
-Deep Level	25		6	Walker, Parker, & Co
-Pennant			0	ditto
-Wagstaff	23		6	Adam Eyton.
-Eglwyseg	6		0	Walker, Parker, & Co
-Mold	15	12 0	6	Adam Eyton.
-Glan Alun	6		6	Walker, Parker, & Co
-Sir Edward	11/2		6	
- ditto	31/2	11 0	0	Walker, Parker, & Co
-North Henblas	41/2	11 3	6	ditto
- ditto	11/4	5 10	0	ditto

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Date		Mine			Tone		Pr	ice	per	to	n.	Purchasers.
July	2-	Minera	 	 	.100		£	4	2	0		Vivian and Sons.
	_	ditto	 	 	43			4	2	0		ditto
	-	ditto	 	 	. 52			4	4	6		Bagillt and Co.
	-	ditto	 	 	. 55			8	3	0		Vivian and Sons.
	_	ditto	 	 	50			3	15	6		H. Southern.

BLACK TIN. BLACK TIN.

78. c. q. lbs. Price p. ton. Amount. Purchasers.

9 0 0 14 ... _ ... £625 18 8 — _ ... 6 6 3 4 ... _ ... 444 16 2 — Trethellan.

5 6 2 11 ... £72 17 6 ... 388 8 4—Calenick.

7 9 3 8 ... 73 2 6 ... 547 15 8—Carvedras. 2—North Roskear...
3—Pedn-an-drea ...
7—Wheal Kitty....

COPPER ORES.

NO SALE on Thursday last, or Thursday next.

Copper ores for sale at the Royal Hotel, Truro, on Thursday week—Mines and parcels.—Devon Great Consols 1812—Marke Valley 493—Wheal Crelake 226—East Caradon 194—Bedford United 180—Okel Tor 175—Maria and Fortesone 182—Prince of Wales 199—Kelly Biay 105—Gunnis Lake (Clitters) 95—Wheal Friendship 87—Beitsone 20—Collacombe 14.—Total, 3162 tons.

THE MINING JOURN

Just 10, 1869.

Prussian Mining and Iron Works Co.,

DUSSELDORF.

(PREUSSICHE-BERGWERKS-UND-HUTTEN-ACTIEN-GESELLSCHAFT.)

EMISSION OF 1,200,000 THALERS PRUSSIAN CURRENCY. OR £180,000 STERLING,

IN FIVE PER CENT. PRIORITY OBLIGATIONS,

PRUSSIAN MINING AND IRON WORKS COMPANY, DUSSELDORF,

IN OBLIGATIONS OF 200 THALERS, OR £30 STERLING EACH.

The undersigned company issues, in accordance with the resolution of the general meeting of 12th May, 1868, for the amount of 1,200,000 PRUSSIAN CURRENCY, EQUAL TO £180,000 STERLING, FIVE PER CENT. PRIORITY OBLIGATIONS.

for which a general mortgage upon the property of the company—namely, the Collieries Hansa, near Huckarde; Zollern, near Kirchlinde; and Erin, near Castrop (all in the Province Westphalia); and the Iron Works Vulkan, near Duisburg, in the Rhine Province-has been duly given, registered, and deposited with the Berliner Handels-Gesellschaft in Berlin.

The paying-off the Obligations, AT PAR, takes place in accordance with a fixed plan of amortisation set forth on the obligations themselves, within a term of 37 years, commencing with the year 1870, the numbers of the obligations to be paid off each year being determined by lot, drawn at the general meeting.

The payment of the interest coupons on 1st July of each year, and of the amortizised obligations will take place in Berlin, DUSSELDORF, COLOGNE, and HAMBURG, in Prussian currency, and in LONDON in pounds sterling, at the fixed course of

ONE POUND STERLING FOR SIX THALERS TWENTY SILVER GROSCHEN.

Subscriptions for these obligations, at the course of 891 per cent., will be received between the 15th and 31st July instant, for Great Britain and Ireland :

In LONDON At the office of the Messrs. BARCLAY, BEVAN, TRITTON, AND TWELLS, 54, Lombard street. BANK OF IRELAND, and Messrs. BRUCE AND SYMES, Stockbrokers, Dame-street. In DUBLIN CORK STEAM SHIP COMPANY. In CORK

Where forms of subscription can be had. In case of more than the whole amount being subscribed for, a proportionate reduction will be made, of which the subscribers hall be duly informed.

Ten per cent. of the nominal amount applied for is to be deposited at the time of subscribing.

The payments of the subscription price for the obligations which shall be allotted to the English subscribers are to be made at the respective places of subscription, as follows:-

For each obligation of £30 nominal amount,-

Up to 31st July current 39½ per cent., with the interest upon £15 0 0 From 1st July £11 18 3 Up to 30th September cr..... 25 22 Up to 30th December cr. 25 7 10 0 = 7 13 9

Upon occasion of the first payment a form of provisional receipt will be given to the subscriber, upon which the further payments also to be receipted.

After the full payment (which can also be made at any time after the date of allotment, and before the fixed dates, subject to the proper calculation of the interest) the provisional receipts will be exchanged for the Priority Obligations, which shall be made out in the name of the party then designated, and which are furnished with interest coupons from 1st July, 1869.

PRUSSIAN MINING AND IRON WORKS COMPANY.

Dusseldorf, 5th July, 1869

THE DIRECTION.

THOS. J. MULVANY.

- ESTABLISHED 1846,

ADVERTISEMENTS inserted in all the London Provincial, Foreign, and Colonial Newspapers.

78, GRACECHURCH STREET, CITY, E.C.

Motices to Connespondents.

- * Muchinconvenience having arisen in consequence of several of the Numbe during the pastycar being out of print, we recommend that the Journal shou be filed on receipt: it then forms an accumulating useful work of reference
- THE LUCY PHILLIPS GOLD AND SILVER MINING COMPANY.—Can any of your readers inform me whether it is the fact that Dr. Bishop has been home a fortnight; if so, will be extricate us from our difficulties, as promised by our directors?—WM. AMOR.
- MINING IN THE ISLE OF MAN.—We have had a long statement respecting the affairs of the Kirk Michael Mining Company forwarded to us for publication in the Journal. It is to be hoped that so promising an undertaking will not become involved in legal proceedings. Surely any little matter in dispute can be arranged by friends, without calling in the aid of lawyers.
- GLAN ALUN.—Can any of your correspondents give any information respecting Glan Alun Mine? How often are its meetings held, and what are its present prospects?—A SHAREHOLDER.

 M. B. GARDER.—We have a letter for this correspondent, and shall be glad to hear where we can forward it.
- near where we can forward it.

 MINING IN BRAZIL.—The letter from "An Anglo-Brazillan" is hardly suitable
 for publication. If there should be cause for dissatisfaction in the incompetency, or irr gularity in performance of dutics, on the part of those officials
 more especially referred to, then a representation to that effect should be addressed to the directors in London. The mere fact of being relatives should
 not militate against their employment.
- Received,—A Miner—Investor—A Large Shareholder in Taquaril—Reader—A Shareholder—An Explorer—One Interested.

THE MINING JOURNAL, Bailway and Commercial Gazette.

LONDON, JULY 10, 1869.

THE TIN-PLATE TRADE.

It has been a long time since the tin-plate makers assembled at their Quarterly Meeting under circumstances less satisfactory to the in-dustry which they represented than those which existed when they met in Gloucester last week. Speculation in black tin, by capitalists who were wanting a safe source of employment for their money, has run up the price of that metal nearly 40% above the figure to which it descended towards the close of last year. The advance made on the descended towards the close of has year. In a advance made certain classes of plates more expensive to produce than at the time it began, to the extent, at one time, of 5s. a box; and the condition of affairs is not much improved at the present moment. Buyers will not give the higher price for plates which, considering the difference in the price of tin, the makers ought to get for them, if they are to be sufficiently remunerated. The matter became so serious that there are cases in which makers, unable to get an advance of more than are cases in which makers, unable to get an advance of more than 2s, a box, had to sustain a positive loss of 3s, on a considerable amount of work which they had in hand. This, of course, they would not do longer than was avoidable. The result was that they forthwith reduced their make to within those dimensions at which plates could longer than was avoidable. The result was that they forthwith reduced their make to within those dimensions at which plates could be made and sold at a profit. Only the home market could, under these circumstances, be supplied. The manufacturers of tin-plate determined upon at the previous quarterly gathering should be conwares generally in this country had no alternative, if they were to

A LARGE AMOUNT of MONEY being EXPENDED in ADVERTISING in WORTHLESS PUBLICATIONS, C. H. MAY will be HAPPY to AFFORD INFORMATION to ADVERTISERS in the SELECTION of the BEST and MOST INFLUENTIAL.

O. H. MAY'S GENERAL ADVERTISING OFFICES

ESTABLISHED 1846.

LESTABLISHED 1846.

in the past six months, with the result that not half time has been worked at their mills throughout that period.

There have been other firms, however, who have not slackened their hands. In fact, they have worked so vigorously that in the past six months they have sent away 200,000 hoxes more than they shipped even in the first half of 1868, when prices were very low on the average. This would lead to the inference that the foreign consumers are disposed to give remunerative prices. But that is not so. Our wen in the first half of 1868, when prices were very low on the average. This would lead to the inference that the foreign consumers are disposed to give remunerative prices. But that is not so. Our chief foreign customers are those of the United States and of Canada, in which places, as is well known, tin-plates are applied to roofing and other uses to which they are never adopted here. Buyers there are notorious for setting their faces against an advance in the prices of goods obtained from foreign markets, which they have reason to know is the result of speculation. In obedience to that rule, they have all through the prevailing critical time declined to give more than a comparatively trifling advance. Their necessities are increasing, and they are resorting to various devices for supplying them. Old stocks are going out of store with a freedom and at a profit hardly contemplated by the holders. But the necessities of some makers in this kingdom would seem to be more pressing than those of translantic consumers. Hence, although the latter will not give for the goods the prices at which only they can be sold at a profit, yet they are receiving large supplies. The extent of these supplies the above-mentioned comparative figures tolerably well indicate, but a less conspicuous enumeration will place the truth in a still more forcible light. It is within our knowledge that only very recently one Liverpool agency alone sent out as many as 26,000 boxes.

This is going on at a time when the trade officially declares that the ruling price of tin-plates is unremunerative. How long makers will be able to supply customers' wants at a loss will depend upon the time during which tin remains exceptionally high in price, and the demand is not brisk. The date of neither of these states of things is easy to be foretold. Happily for the plate-makers, the tendency in the price of block tin is in the direction of less stringency, the result of accumulating stocks arising out of the very partial operations at first-class mills. B

ing of the date of the next sales. It is possible that when the ensuing arrivals have been placed upon the market these same capitalists may again buy up; but the step is improbable. Still we may be sure that they will not permit themselves to be out-manœuvred. Consequently there is no prospect of a speedy cessation of higher rates than are compatible with a remunerative trade in a time of inactive demand. No one expects that quotations will for a long time active demand. No one expects that quotations will for a long time to come go down to the point at which they began to dart up after the last sales. As to the date of the other supposed condition, the prospects are even less encouraging. The features by which the American trade is now distinguished are, in our view, even less unsatisfactory than they will be for awhile, a few months hence. The Alabama claim, though in abeyance for the present, must again come up; and it will be revived in such a manner as to increase the reluctance which some American presents are known to extention. reluctance which some American merchants are known to entertain towards an extension of business with this country. Ultimatel question will be adjusted without resort to the terrible alternati Ultimately the an armed rupture between the two nations, but meanwhile trade will

selling at a loss, nevertheless, it must not be forgotten, as indicating what may yet lie before the trade, that three tin-plate making firms have recently had to succumb.

STANNARIES LAW AMENDMEMT.

STANNARIES LAW AMENDMEMT.

That the Cost-book System is better adapted to the working of mines than any other law upon the Statute Book has very frequently been stated, but it has long been felt that since mining operations have come to be carried on by adventurers resident in all parts of the country, instead of by purely local partnerships, some amendments were required to suit the local and customary law to the enlarged and altered circumstances. The recent depressed condition of the Cornish mining interests led to the inconvenience of dealing with out-adventurers receiving fresh attention; and an influential local committee, with the valuable assistance of the members of Parliament for the several districts concerned, of Mr. Thos. Cornish, of Penzance, and a few others, succeeded in framing a Bill which

Parliament for the several districts concerned, of Mr. Thos. Cornish, of Penzance, and a few others, succeeded in framing a Bill which was admitted by the Legislature to be so just and reasonable that it has now become law. In the Supplement with this day's Journal we publish the Act in extense, which it will be seen provides all the machinery that can be required for enabling mining undertakings to be carried on with energy and success.

The nature of the principal amendments which have been introduced are very generally known, those recognising the power of a majority at a meeting, sanctioning prospective calls, and securing the miners and labourers three months' pay in case of winding-up being the most important. Under the new law, it will be seen that special meetings may be convened after seven clear days' notice, the notice specifying the place, day, and hour of meeting; special resolutions the most important. Under the new law, it will be seen that special meetings may be convened after seven clear days' notice, the notice specifying the place, day, and hour of meeting; special resolutions only can be passed there, and must be confirmed at a subsequent meeting, not less than 14 days, or more than a month, after the first special meeting. Special resolutions may alter the rules or cust of mine management. Every four months pursers must enter accounts in cost-book, and show all credits, debts, and liabilities, and the name of every shareholder. Where companies have rules and regulations in their cost-book, these must be filed with the Registrar, or application may be made to the Court to compel the filing—companies without rules continue to be guided by Stannaries custom, as at present. Accounts may be audited at a meeting when special notice is given. The call may be prospective for three months' costs. Calls when passed may be sued for by the purser, and no transfer is to be valid till calls and expenses are paid. Fractional parts of shares are not to be recognised. After due notice shares may be forfeited, and carried to "The Account of Forfeited Shares," to become the property of the company, and disposed of as they may think fit, a statutory declaration by the purser being evidence of forfeiture, and his receipt of the price for it being a sufficient title to such share—all calls, &c., on such share being still recoverable from the original holder. Shares relinquished by notice in writing to the purser to be carried to "The Account of Relinquished Shares," and become the property of the company. Three-fourths of the shareholders can sell a mine. No one is to be liable in winding-up a mine, if he has ceased to be a shareholder for two years before the mine ceased or the winding-up order was made. Miners' wages for a period of three months are to have priority over every other debt of the company. The clause relating to procedure in the Vice-Warden's Court are such as to render the whole subject

THE MINING INTEREST IN MEXICO.

As some extensive mining operations in Mexico are contemplated, it is considered very desirable that the exact position that interest occupies should be understood by English capitalists. This, indeed, is rendered more necessary from the many adverse reports as to the state of the country, circulated by interested parties through the

American journals:—

TO WILLIAM NEWBOLD, ESQ., LONDON BANK OF MEXICO, ETC.

DEAR Sig.—As you have lately arrived from the City of Mexico. I shall feel much obliged to you if you would kindly inform me whether the Government of that country is, as has been stated, exerting itself with energy by dictating laws for the special protection of mining interest. An answer will oblige.

June 6.

June 6. HERRY SEVELL.

London, June 7.—MY DEAR SIR: In reply to your letter of this date, I have
much pleasuse in stating that I believe the present state of Mexico to be more
favourable to mining than it has been for many years past. The Government
is doing all that it can to protect mining speculations, by dictating laws for
the special advancement of mining interests.

WM. NEWBOLD.

H. Sewell, Eq.

Mr. Wm. Newbold is the manager of the London Bank of Mexico and South America in the City of Mexico; he arrived from Mexico six weeks ago, and, therefore, this evidence is of importance.

THE ROYAL SCHOOL OF MINES, JERMYN STREET.

THE ROYAL SCHOOL OF MINES, JERMYN STREET.

We this week conclude our sketches of the interesting lectures of Mr. WARINGTON SMYTH "On Mining," delivered at the Royal School of Mines, in Jermyn-street. Our reporter's notes, it will have been observed, indicate the extraordinary range of information—historical, scientific, theoretical, and practical—which the gifted lecturer brings to bear upon the matters he is describing. Our reports have not, because they could not, supersede the advantages students have in listening to the pleasing and animated viva voce instruction of the lecturer, illustrated by innumerable sketches and diagrams by which, with a few lines of chalk on a black board, the most difficult technicalities are made plain. They must, however, have shown that, superadded to the practical knowledge gained alone by actual contact with underground operations, such preparation as that obtained at the Royal School of Mines is invaluable. Our last instalment of Mr. SMYTH'S course is published by an appropriate coincidence with the list of distinctions gained by the class-men; and while to those who have achieved distinction the honour is greater, the very scanty dimension of the list shows the reality and closeness of the extraordimension of the list shows the reality and closeness of the extraordimension of the list shows the reality and closeness of the extraordimension of the list shows the featined. That list, however, the to be ten times as long, and it behoves those who have charge of the simportant national institution to look well that no fault of theirs limits in any way the use made of the funds so liberally provided by Parliament. There are, as in one of his lectures Mr. SMYTH forcibly pointed out, special reasons in these days why mining should be conducted with greater reference to scientific and economic excellence. The greater depth at which the subterranean riches of our islands have to be sought furnishes a necessity for the application of every mechanical and engineering advantage. have to be sought furnishes a necessity for the application of every mechanical and engineering advantage. The vast increase of population alone compels so enormous a production of minerals that the lation alone compels so enormous a production of minerals that the only chance of profit in many cases depends upon the use of new inventions, or more powerful explosives, to lessen the cost of labour, or increase the quantity of rock dislodged from its antediluvian resting place. Working at greater depths, and drawing such enormous quantities of mineral, the result of inadequate scientific knowledge, is shown in the greater number of ordinary fatal accidents and extraordinary death-dealing catastrophes. We sincerely trust, therefore, that year by year the number of well-instructed mine managers sent into this important field of national industry from the Jermynstreet School of Mines will increase; and that such lectures as those we have reported will be useful to hundreds, where hitherto only tens have reaped their advantages. tens have reaped their advantages.

THE EXPORT COAL TRADE.—The exports of coal from the United Kingdom in May presented a considerable decrease as compared with May, 1868, the total shipments for the month being 883,808 tons, against 1,105,696 tons in May, 1868, and 1,115,312 tons in May, 1867, In the five months ending May 31, this year, the aggregate exports were 3,989,221 tons, against 4,215,084 tons in the corresponding period of 1868, and 3,832,012 tons in the corresponding period of 1868, and 3,832,012 tons in the corresponding period of 1867. In these totals the exports to France figured for 833,235 tons, 798.065 tons, and 858.327 tons respectively. The exports have in-1867. In these totals the exports to France figured for 833,235 tons, 798,065 tons, and 858,327 tons, respectively. The exports have increased this year to Russia, the Hause Towns, France, Spain, and Italy; but they have decreased to Sweden, Denmark, Prussia, Holland, the United States, Brazil, and British India. The value of the coal

exported from the United Kingdom is May was 416,301*l.*, as compared with 546,796*l.* in May, 1868, and 563,654*l.* in May, 1867; and in the five months ending May 31 this year 1,923,250*l.*, as compared with 2,103,445*l.* in the corresponding period of 1868, and 1,985,609*l.* in the corresponding period of 1867.

TEN YEARS' IRON EXPORTS.—Notwithstanding all the outery which has been raised of late years as to foreign competition, the fact remains established that the exports of iron and steel from the United Kingdom attained a larger total in 1868 than in any former year. In 1859 these exports amounted to 1,465,191 tons; in 1860, to 1,442,045 tons; in 1861, to 1,322,694 tons; in 1862, to 1,501,451 tons; in 1863, to 1,640,949 tons; in 1864, to 1,502,964 tons; in 1865, to 1,617,509 tons; in 1866, to 1,683,390 tons; in 1867, to 1,882,650 tons; and in 1868, to 1,945,246 tons. The value of these exports was as follow year by year during the period under review:—In 1859, 12,314,437L; in 1860, 12,154,997L; in 1861, 10,326,646L; in 1862, 11,365,150L; in 1863, 13,150,936L; in 1864, 13,310,484L; in 1865, 13,471,359L; in 1866, 14,842,417L; in 1867, 15,050,391L; and in 1868, 15,021,907L

MINING, METALS, AND MINERALS-PATENT MATTERS.

BY MICHAEL HENRY,
Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.
Mr. A. M. CLARK, of Chancery-lane, has specified a patent relating
to a material for the manufacture of tiles for roofing purposes. (Communicated to him by G. M. de Jean, ironfounder, of Boulevard St.
Martin, Paris.) This invention consists in the application for roofing
purposes of tiles made of ordinary cast-iron, the form and dimensions being varied to suit all purposes, and of a more or less ornamental appearance as desired. In order to preserve the metal from
oxidation, its surface is protected with any suitable paint or varnish,
or the surface may be enamelled with the same object. The tiles or
plates of cast-iron are made of various sizes, not exceeding 3 feet
square, and not more than 1-16th inch in thickness, but possessing all
the requisite strength. These plates are made of all the various forms
now in use, and applied for roofing purposes, on either a wood or now in use, and applied for roofing purposes, on either a wood or metal framing. The weight of a square yard of roofing, composed of cast-iron tiles on this principle, each 1 foot in length, would not exceed 33 lbs. Further, by the use of these tiles the number of rafters exceed 33 lbs. Further, by the use of these tiles the number of rafters now required for roofs may in some cases be reduced one-third, and

even one-half.

Mr. EDWARD Hogg, of Gateshead, has obtained a patent for an invention relating to machines for stragthening and planishing rolled iron. This invention consists in the use of steel or chilled cast-iron frictional rollers, suited to the shape of iron required to be straightened and planished, such rollers being arranged so as to admit of the iron under operation being passed through them in a straight line, the pair of rollers on the centre of the machine being horizontal, and having a pair of vertical rollers placed one over the other at a suitable distance on each side of the said pair of central rollers. The horizontal central rollers are coupled by toothed wheels, one of which, on the vertical shaft of one of the said rollers, is driven by suitable gearing from the main shaft. Theother roller is adjustable, as required, by means of a screw; the top vertical rollers are also adjustible. When the iron is passing through the rollers jets of water are applied round the outer surface thereof whilst hot, until a hard, even, and perfect surface is obtained during the time compression takes place; this is effected by means of a perforated tube on each side of the central rollers, through which tube the iron is passed to and fro until it is duly planished. A reversing motion is adopted, to cause the iron to pass backwards and forwards until the fibres are perfectly closed, and the outer skin planished as required, which will be completed at the same heat as when rolled and cut to lengths from the saws. This reversing motion is effected by means of belt-sheaves connected with the first-motion shaft, where a pair of double engines, with reversing motion or slot links, could be applied.

Among recent applications for patents may be mentioned the following:—W. Cowan, of Aberdeen, locomotive-engines; M. Turner, of Birmingham, manufacture of iron, and apparatus therefor; D. Hebson, of Liverpool, steam-engines; W. E. Gedge, of the Strand, safety-brake for railway vehicles; R. W. WHITEHEAD, coupling or jointin en oue-half.
Mr. EDWARD Hogg, of Gateshead, has obtained a patent for

of New York, United States).

Lighting Mines with Gas.—In improving the method of lighting mines, Messrs. M. Wilkin and J. Clark, of Paddington, propose to use lamps burning gas, oil, or other illuminating materials, but instead of allowing the lamps to draw the air proper for their combustion from that surrounding them they furnish them with air propelled from a pure source at the bottom or top of the shaft; they convey the air to supply the combustion in air-tight tubes to the interior of the said lamps. They supply a greater quantity of air to said lamps than is necessary for the combustion of the gas, or other illuminating material, and the overplus they cause to blow gently out by escape valves or covers near the top of the said lamps, thereby preventing the entrance of foul air or air which has become mixed with fire-damp. By preference, they glaze the lamps about half their height with glass, the upper half they prefer to make of sheet metal to withstand the heat. They furnish dampers to the lamps, so constructed that when the proper supply and pressure of air is obtained the damper is elevated, but if the supply of air is withheld the damper will descend or collapse, and extinguish the light, or turn off the supply of gas according to the kind of lamps used. The said dampers may be fitted in connection with the escape valve above referred to. When gas lamps are used the gas is produced, and conveyed in pipes in the usual way. The air is propelled through the air-tight tubes, above referred to, by any well-understood method, such as by fans, air-pumps, steam-jet, &c. In lighting the lamps, they propose to use safety-matches, such as those manufactured by Bryant and May. After the match is inserted into the lamp by the escape-valve, above referred to, it is struck, and the lamp is lighted. They furnish the lamps with tubes, into which the lighted match is thrust, and thereby extinguished before it is withdrawn. extinguished before it is withdrawn.

IMITATION GOLD .- "Oroide," the new alloy resembling gold, is a IMITATION GOLD.—"Oroide," the new alloy resembling gold, is a French discovery, and consists of pure copper, 100 parts; zinc, or (preferably) tin, 17 parts; magnesia, 6 parts; sal ammoniac, 3-6th parts; quickline, \$\frac{1}{2}\$th part; tartar of commerce, 9 parts. The copper is first melted, then the magnesia, sal ammoniac, lime, and tartar in powder are added little by little, briskly stirring for about half-an-hour see as to mix thoroughly; after which zinc is thrown on the surface in small grains, stirring it until entirely fused. The crucible is then covered, and the fusion maintained about 35 minutes, when the dross is skimmed off, and the alloy is ready for use. It can be cast, rolled, drawn, stamped, chased, beaten into powder or leaves.

cast, rolled, drawn, stamped, chased, beaten into powder or leaves.

THE CONSUMPTION OF COAL.—If the area of all the coal fields in the world were divided into 100 equal parts, it is estimated that America approximately holds 80, Europe 8, and all other countries 12. Out of the 8 parts in Europe, Great Britain holds 5\frac{1}{2}, and out of those 5\frac{1}{2} parts she is at present raising more coal than all other countries in the world, out of the remaining 94\frac{1}{2} parts put together. The consumption of coal among continental nations differs greatly from their output. We have no statistics yet in England for showing, as in France, the purposes for which coal is consumed. This will be one of the enquiries of the Royal Commission. France raises about 12,000,000 tons of coal annually, and consumes 18,000,000. Out of the 6,000,000 tons she imports it is estimated that two-fifths come from Belgium, one-fourth from Germany, and the remainder from England. Out of the aggregate 18,000,000 tons consumed in France, it is estimated that 13,000,000 are used in manufactures and workshops, 2,000,000 for domestic purposes, 2,000,000 for steam tranport, and the remainder for mines and quarry purposes, Now,

England is raising 105,000,000 tons annually; she exports 10,000,000, and consumes 95,000,000. We cannot tell the particular purposes for which these 95,000,000 are consumed, as is done in France; but by dividing the quantity consumed equally among the population of the two countries, we find the total consumption of coal per head per annum in France is nearly 10 owts., whilst in the United Kingdom it is upwards of 63 cwts. for each person. To bring up the consump-tion of coal in France to the same level as in England would require an additional annual supply of nearly 100,000,000 tons. How enormous, therefore, would be the quantity of coal required to bring up the consumption of Europe approximately to that of England? Every new railway that is constructed, every new steamboat that is built, and every new steam-engine that is erected, all are daily creat-ing so many voracious appetites for the digestion of coal. This too is now gaing on not merely in Europe but wherever civilisation is is now going on not merely in Europe, but wherever civilisation is spreading all over the world.

THE NORTH OF ENGLAND IRON AND COAL TRADES.

MIDDLESBOROUGH, JULY 8.—The Quarterly Meeting of the North f England Iron Trade was held in the Royal Exchange, on Tuesday, There was a numerous attendance of representatives from the Northern Counties, as also from Staffordshire, Wales, and Scotland. The meet-ing lasted for about three hours. There was but a small exhibition of models of machinery or new patents as compared with the show at previous meetings of the trade, but, on the whole, the meeting was regarded as a success. The large and handsome Exchange Hall had a number of tables running down its centre, on which were shown various inventions of interest. Messrs. Robinson and Janson, civil a number of tables running down its centre, on which were shown various inventions of interest. Messrs. Robinson and Janson, civil engineers, of Darlington, exhibited a model wire tramway. This invention, now carried to a practical result, has for its object the construction of light and cheap ways for the transport of mineral or agricultural produce in localities as yet unprovided with railways. Though a great number of cases exist in Great Britain to which it may be applied with advantage, the chief development of this method of carriage will probably take place in the colonies, and in other countries, which stand in urgent need of light lines of some kind to lead down their productions to the main arteries of inland communication, or to ports. The system may briefly be defined as a continuous development of the plan now not unusual in India, Australia, and in some mining district, of brigding over a river or ravine by a single wire-rope, by which, carried in a buck of suspended by a pulley, the necessary loads are transmitted from one point to another. To accomplish the easy passing of the points of support necessary to arroy out a continuous line of communication, and to provide for the distribution of the burden and the application of motive p-wer, have been problems of no small difficulty; but, after experiments on a first trial length of \(\frac{1}{2} \) mile during the autumn of last year, these practical details were worked out, and a contract was immediately entered into for a line 5 miles in length near Leicester, which has recently been completed, for mineral traffic. This line consists of an endless wire-rope, supported on a series of pulleys carried by substantial posts, which are ordinarily about 150 ft. apart, but, where necessary, much longer spans are taken, in one case amounting to nearly 600 feet. This rope passes at one of its ends round a Fewler's clip-drum, worked by an ordinary portable steam-engine, and the rope is thus driven at a speed of from four to six miles an hour. The boxes in

than is necessary for fixing an electric telegraph, without bridges, without embankments, and without masonry, exists equally in both branches of the system.

A working model of Archer's new patent stone-breaker was shown by the Dunston Engine Works Company, Newastle-on-Tyne. This machine is used for breaking road metal, and for crushing and grinding ores, bones, and other hard substances. The modus operandi is thus described:—A slow revolving motion is imparted to the grinding or pulver ising roller, and at the same time a short and powerful reciprocating motion is imparted to the lever with the squeezer on its end, thereby operating with a crushing action on the material between the roller and the squeezer as they fall, and are carried round by the turning of the roller. The relative distances of the operating faces from the roller are adjusted as required by varying the thickness of the liver in the connecting link. The periphery of the roller. The relative distances of the operating faces from the roller are adjusted as required to be broken.

A very handsome and interesting model of a power-hammer, worked by a belt, was shown by the patentee, Mr. David Joy, of the Cleveland Engine Works, Middlesborough. The power is applied to a crank, and through a spring. The hammer bar communicates with the cylinder, into which air is admitted at pleasure to cushion the blow.

Mr. W. Asquith, of Broad-street, Hallfax, showed a model of a compound silde and screw-cutting lathe, with 10-tt, gap-bed, in full working order.

Plans and sections of Mr. Thos. Whitwell's patent fire-brick stove were prominently exhibited. The patentee assures the trade that his fire-brick stove possess thefollowing advantages over any other:—They will stand the greatest tumperature that can be produced by the combustion of the gases. There is no wear and tear of cast-tron pipes or material, such as fire-brick and ganister, is now for the first time made use of in heating the blast, without its being at all necessary to cleanse the gas from the

forward. Shipbuilders have their hands full, and the plate makers are, as a consequence, as busy as ever. The local demand for coal is tolerably good, but orders for coke are very scarce. The practice which is now becoming general of using coal on locomotive engines instead of coke, as formerly, has materially reduced the consumption of the latter. Except for home use, the demand for coal is inactive.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE,

JULY 8.—The general result of the Quarterly Meetings of the South Staffordshire Iron Trade this week has been to confirm what has been previously stated as to the actual position of the trade. There is, probably, rather more iron being made than has been produced in South Staffordshire for some time past, but, in spite of that, it would be rather an over than an under estimate to say the works are able to turn out two-thirds their full make. The production of rails by several firms appears to be an important feature just now, and it is said that one company is rolling 500 tons per week. Some members of the trade are disposed to look with considerable hope on the permanent revival of the rail trade in the South Staffordshire district, and they rest their expectations very much on the superior quality of South Staffordshire rails, which they say is now commending them to purchasers. This hopeful view is, however, by no means universally adopted, some of those who are now making rails asserting that the price makes it almost a doubtful question whether it would not be better to allow the works to stand idle, and so to depreciate. If it should prove that the quality of Staffordshire rails will secure a decided addition to the price paid for the productions of other districts, the sanguine expectations of the first class of persons may be realized to some extent. JULY 8 .- The general result of the Quarterly Meetings of the South of other districts, the sanguine expectations of the first class of persons may be realised to some extent. For sheets the demand is very slack, and the other branches of the trade, except rails, are decidedly The demand for pig-iron is steady. There is no alteration in price, though in some cases vendors may ask rather more. the whole, there seem grounds for hoping that the trade will tend to improve as the season advances, though no one anticipates a brisk demand in this district for the present year. The United States trade is very quiet, but accounts speak rather hopefully of the home

There are grounds for believing, as stated in the Mining last week, that the ironmasters of South Staffordshire are disposed to adopt modern improvements in the manufacture of iron, in which the younger district on the Tees has taken the lead. Anyone visiting that district must be struck with the far less injury to the atmosphere which results from the iron works there, and this result simply arises from the more complete utilisation of the products of combus-tion, which, instead of darkening the atmosphere and clogging the buildings of the inhabitants, and destroying vegetation, are turning water into steam, and thus creating the power which is needed-are

in fact, "matter in the right place."

The Hardware Trades of South Staffordshire continue quiet, and accounts are not more cheering generally, though probably there is as much work being turned out as there has been for some months

past. The unhappy strike in the nail trade is taking a wider range, and meetings are being held to encourage the men to continue their resistance. It is impossible not to feel that this trade is suffering from the competition of cut nails, and of those of Belgian manufacture. For years it has been drooping, and distress amongst those connected with it has been frequent, and almost chronic. If the nailers possessed more education they would, probably, have been prompted to bring up their children to other branches of industry; but they go on in the old groove, and sink deeper and deeper. The problem of dealing with pauperism and poverty is a very hard one; but every case when probed to the bottom suggests as one of the conditions of amendment the better education of the working classes. The result of this would be at once twofold: they would more readily The result of this would be at once twofold; they would more readily turn their skill into other directions, and they would have a keener sense of the future, and be thus more powerfully influenced by con-

siderations which observation would force upon their minds, instead of defiting along in the old net.

The Rev. H. Sandford, Government Inspector of Church Schools, who has taken great interest in the education of the children of the working classes in the South Staffordshire district, met the members of the South Staffordshire Institute of Mining Engineers at Dudley, on Monday, for the nurness of eliciting their oninges on the education. on Monday, for the purpose of eliciting their opinions on the educa-tional clauses in the new Mines Regulation Bill. The discussion which ensued did not point to any definite mode of meeting the difficulty which is now experienced, but Mr. Sandford, and the members who took part in the discussion, appeared quite to agree that the present regulations have an injurious effect; that the masters will not sub-mit to employing boys under regulations as to time and school atthe dance, and that in consequence they are not allowed to work at all until the age when these regulations no longer apply; and as they are not generally sent to school, the restrictions have the effect of driving them from work to mere play and mischief, if not to criminal habits. The institute appears to be increasing in members, and 17 new ordinary members were elected, eight more proposed, and seven out of the 12 Government Inspectors of Mines elected honorary members. It is now useless to lament over the fact that two institutions of a

It is now useless to lament over the fact that two institutions of a similar character exist in South Staffordshire. The South Midland Institute appears to have made a vigorous start, and at present the only course is for both to go on avoiding collision, and good will, no doubt, be done, though, doubtless, some regret that there is not one body instead of two. A meeting of the South Midland Institute was held at Wolverhampton on Tue-day—Mr. S. Bowkley, F.G.S., one of the Vice-Presidents, in the chair. Mr. Randall read a paper "On the Evidence of Denudation in and around the Shropshire Coal Fields," a subject which he has discussed with marked ability in the Mining Journal. The paper, which deals in a very interesting manner with the evidence of a great denudation of the coal-bearing strata to the east of the Shropshire field, is fully referred to in the Supplement to this week's Journal. It was agreed, on the suggestion of Mr. Baker, Inspector of Mines, to defer the discussion on the paper to another meeting, when that gentleman said he hoped Mr. Randall would be able to attend. Mr. Randall said he would if possible; and, he added, that he was in hopes that, notwithstanding appearances were so much It is now useless to lament over the fact that two institutions of a that he was in hopes that, notwithstanding appearances were so much against them to the south, a better prospect might open up as the result of investigations carried on a little more to the north-east of the Shropshire coal field, rather than to the south-west. Mr. M. Tildesley read a paper on an invention for consuming smoke which his firm

—John Harpur and Co., of Willenhall—have patented, and which
has previously been described in the Mining Journal.

—John Harpur and Co., of Willenhall—have patented, and which has previously been described in the Mining Journal.

In April last a charge was brought at Tunstall, in North Staffordshire, against Mr. William Simpson, a coalmaster, of having stolen 1000 tons of coal of the value of 2001, the property of Mossrs. Joseph and John Alcock. The defendant leased adjoining mines, and it was found, and in the result was not disputed, that he had worked beyond his boundary, and the only question was whether he knew that he was doing so. Mr. Coe, the mining surveyor, called in April, declared that the trespass could not have been the result of a mistake, that the person working the coal must, had he latched and dialled in the usual way, have known that he was getting the coal of the prosecutors. The hearing of the case was resumed before Mr. Davis (stipendiary), Mr. H. Meir, and Mr. L. Wedgwood, at the Police Court, to-day. It was proved that the defendant and his son dialled the pit regularly when the trespass was evidently going on, and also that the workings were close to the boundary in 1855, and were so laid down on a plan made by a surveyor in the defendant's employ, who was called as a witness. Mr. E. Lingard, who had been a lesse of the colliery since Mr. Simpson ceased to be so in 1867, said no coal had since been got in the direction of the trespass, and, on being cross-examined, he gave it as his opinion that Mr. Simpson must have known he was trespass-sing, even had he worked within 10 yards of the boundary. The magistrates, without calling for the defence, decided that felony had not been proved, and left the prosecutors to their civil remedy.

REPORT FROM SCOTLAND.

JULY 7.—On the day following the date of our last letter our pigiron market met with what medical men denominate an "alterant," in the shape of dimination of the stocks in store by 1180 tons, when one or two cash buyers appeared, and prices have advanced nearly 6d. per ton from their lowest. This is the first instance this year of one or two cash buyers appeared, and prices have advanced nearly 6d, per ton from their lowest. This is the first instance this year of iron having been withdrawn from store, and when it is known that there are still 337,000 tons in the same keeping it will be seen that prices can hardly advance much till a further decrease is effected. It is also to be noted that the shipments this week are large when compared with those of last year, the quantity being 15,190 tons, against 10,530 in the corresponding week of 1868—no less than 11,685 tons of the 15,190 tons having been shipped to foreign ports. If cash purchases are continued with skill a panic may seize the market, and prices may be sent up with a bound. The closing prices last week were 50s. 7½d. cash, at which a good business was done; but on Monday only a few parcels changed hands at 50s. 8d. cash, and 50s. 11d. one month, while yesterday 50s. 10d. and 50s. 10¼d. cash was obtained, and 51s. one month; but prices were weaker at the close. Market easier to-day, and a limited business done at 50s. 9d. cash and 51s. one month, closing sellers over at both prices; buyers 1d. per ton less. No. 1, g.m.b., 51s. 3d.: No. 3, 50s. 6d.: Coltness and Gartsherrie, 58s.; Summerice, 55s.; Shotts, 52s. 6d.—all No. 1. Manufactured Iron is steady, and perhaps the larger makers are getting through with their orders more quickly than they are getting them replaced. Second-class makers are well employed, and work with them is abundant. The engine shops have been busier, but they are doing a good stroke of business too, and we are glad to note that the

replaced. Second-ones makers are well employed, and work with them is abundant. The engine shops have been busier, but they are doing a good stroke of business too, and we are glad to note that the Messrs. Thomson have contracted to supply engines for four steamers for the Ottoman Government, which are being built at Port Glasgow. Ironfounders are quieter, but some branches are busy, especially pipe-making and founders of railway chairs.

Coal for shipment, in which there is a good business passing, is nominally 5s. 9d. to 6s. 6d. a ton, but the offer of a near approach to these prices is not disregarded. Domestic coal can be had at from 9s. to 11s. per 24 cwts. At these prices a full average trade has been done during last week, 34,705 tons having been shipped from the Scotch ports, against 31,985 tons in the corresponding week last year. Our miners continue to meet from week to week, but trade is not considered by them to be in a "flattering" condition, so they did not even "resolve" on doing anything. Mr. Alex. Mc Donald writes them from London, concerning the Mines Regulation Bill, that "rumour is busy, saying it is to be withdrawn;" and adds, "One thing is certain, the apathy exhibited by those it most concerns in many instances will form a good pretext for such a course."

The Celegral and Mid Celegra exites of the Celegral Parisage.

such a course. The Cleland and Mid-Calder section of the Caledonian Railway, which was opened some time ago for goods traffic, was on Friday finally examined by the Government Inspector, preparatory to being opened for passenger traffic. It passes through, and opens up, a pretty large eral district.

Yesterday we had an opportunity of visiting the Clyde shipbuilding yards, and found from two or three to six or seven vessels on the stocks

in each, in different stages of progress. An iron paddle steamer, named the Felis Argentino, has been launched for passenger traffic on the MINERAL LESSEES DENIED THE RIGHT OF USING UNDERGROUND

PASSAGES TO WORK COTERMINOUS MINERAL FIELDS.—In the First Division of the Court of Session, on Monday last, an action was tried, in which John G. B. Graham, of Cambuslang, in this neighbourhood, was pursuer, and the defenders were the Duke of Hamilton and his mineral tenants, Colin Duntop and Co., of Clyde Iron Works. The Duke is superior of the lands of Cambusiang, except a small portion of which is held of the Crown; and in the original feu-grant there was a reservation of coal and minerals. The Duke of Hamilton was proprietor of the coal in the lands of Morristown and Clydesmill, which immediately adjoin the estate of Cambusiang. In working the coal from the lands of Morristown and Clydesmill the tenants of the Enke used passages below the ground, through the estate of Cambuslang, for the conveyance of the coal to the pit's mouth. The action was for declarator that the defenders had no right to use the lands of Cambuslang, belonging to the pursuer, or to make or use any roads or passages, except for the purpose of carrying coal or limestone won or raised from the pursuer's land, and that the Duke of Hamiltou had no right to make or use any roads or passages, whether above or below greund, in or through the lands of Cambuslang, for the purpose of conveying or carrying coal, limestone, or other minerals raised from lands other than the pursuer's; also, for interdict against such use of the roads and passages, and for damages. The Lord Ordinary (Barcaple) assolized the defenders, holding that, so long as there were minerals to be wrought, not only all passages, such as drifts and levels, but also all the wastes caused by their removal, continue to be the property of the mineral proprietor. The pursuer reclaimed, and the Court ordered a proof, and afterwards called in the assistance of three judges of the Second Division, and on Monday they, by a majority of five to three judges of the Second Division, and on Monday they, by a majority of five to three ludges of the Second Division, and on Monday they, by a majority of five to three ludges of the Second Division, and on Monday they, by a majority of five to three heaves and Kinloch held that, when the coal was worked out the right of the four became absolute to the whole property, and he had right to use it in any way be chose, and to prevent the superior from making use of any part of his property. When the feu-grant was entered into it could not be in contemplation of the parties that the seams of coal would be used for conveyance. The defenders were using their right of coal in order to assert a right of another kind—the right of passage. They held that, whether the coal was exhausted or not, the defenders were not entitled to use the underground passages for conveying

REPORT FROM DERBYSHIRE AND YORKSHIRE.

JULY 8.—The Iron Trade throughout Derbyshire remains without alteration, some of the works doing a quiet trade, and sufficient to keep the hands going, but such can scarcely be said to be the rule, although it may be said the foundries are doing more than those engaged in the production of forged iron. Some descriptions of pipes and castings appear in moderate request at the leading works. The lead mines just now are showing more symptoms of vitality than they have done for a considerable time past; at several of them the water. lead mines just now are showing more symptoms of vitality than they have done for a considerable time past; at several of them the water is being cleared out, and the prospects are of a decidedly encouraging character. At Eyam, Middleton, Hucklow, and Tideswell the reports during the past week have been very satisfactory, and there is now every appearance that many of the mines will give very good returns to the speculators, many of whom have been waiting with exemplary patience for the turn of the tide. The demand for house coal is more than usually quiet, there having been a very marked falling off in the quantity going from the district to London. In steam qualities, however, there is a moderate business being done, but there is plenty of room for improvement. In the southern part of the country the of room for improvement. In the southern part of the country the trade is still quiet, more especially in the West of England. A good deal of coke is being made for the supply, not only of the local works, but for those in Lincolnshire and Northamptonshire, for which couna good deal of ironstone is being imported for mixing with the

Several branches of the Sheffield trades are rather active, foremost amongst which may be mentioned the rolling of heavy armour-plates, for which for some time past the demand has been such as to keep the makers barely going. Railway material has also been in good request, and there is rather more doing in Bessemer, plain and manufactured, and there is every prospect that the great reduction proposed by Mr. Bessemer in the royalty for the manufacture of rails will be the means of very largely increasing the trade in that important article, seeing that in an economical point of view it will in many instances supersede the ordinary iron rail. The works in the South Yorkshire district are going on very favourably, most of them doing sufficient business to keep all their hands well going. At Milton and Elsecar all branches are fully employed, rails in particular being still in very good request. There is no change whatever in the business doing at the principal collieries, nearly all of which are still working short time, and are likely to continue to do so, as there does not appear the least chance of any appreciable change for the better so far as house coal is concerned. In steam qualities there is a moderate trade being done to Grimsby, and rather more than of late with Hull. The battle between capital and labour is still being fought out with vigour, but there are signs which indicate that the struggle is fast reaching the end. At Denaby Main the colliery is working as well as the proprietors could desire in the present state of the trade, so that the 300 men who left some four or five weeks ago are not at all likely ever to be again employed there. At Newton, Chambers, and Co.'s there is very little doing indeed, there not being many men employed, whilst the firm shows no signs of departing from the course they laid down for the future working of their collieries. Strafford Main is standing, so also is Silkstone Fall, the latter owing to the colliery, and the support given to him by the men, who have refused native ore.

Several branches of the Sheffield trades are rather active, foremost to appoint another person in his place, preferring to go on the already over-taxed funds of the Association. At Tinsley and Manor Park there is no change. It is not unlikely that the disputes will be the means of introducing coal-cutting machinery into the district, enquiries concerning which are now being made by several owners.

REPORT FROM MONMOUTH AND SOUTH WALES.

JULY 8.—After the Ironmasters' Quarterly Meetings hopes are en-tertained that the demand for all descriptions of iron will increase. JULY 8.—After the fronmasters' Quarterly Meetings nopes are entertained that the demand for all descriptions of iron will increase. The orders received during the past week have not been for any large quantities, but there is evidently a better feeling springing up, and a prospect of the trade shortly attaining a more satisfactory position. There are several buyers of rails anxious to make arrangements for further contracts, and the leading makers generally believe that there will be a continuance of orders for rails up to the end of the year. Several steamers have been laden with rails at the local ports during the past week for Russia, and large clearances have been made for the United States, and the improvement which set in in the rail branch at the commencement of the year is steadily progressing, and there is every prospect of the demand still further increasing, as large extensions of the railway system are proposed to be carried out in America, Russia, and several parts of the continent of Europe. Hitherto American and Russian buyers have been extensive purchasers of rails in this district, and there is every probability of their continuing so, at least for some time to come, and as the aspect of political affairs on the Continent is at present satisfactory, and the majority of continental makers have sufficient orders to keep them fairly employed up to the end of the year, it is expected that Austria and other countries will shortly be in the English market for large quantitities of rail way material. Rails are also being shipped for Peru, and considerable supplies have to be sent to that country during the present season. The home trade has not improved to the for large quantities of rail way material. Rails are also being shipped for Peru, and considerable supplies have to be sent to that country during the present season. The home trade has not improved to the extent anticipated, and it is somewhat surprising that with the present easy state of the Money Market business continues at so low an obb, there being an absence of anything like a speculative feeling in the market. There is an increase in the demand for pig-iron, but there is still room for considerable improvement. The small orders coming to hand for tin-plates are chiefly for coke qualities for exportation. The Steam Coal Trade has not materially improved its position during the past week, the light and favourable winds for the departure and arrival of vessels at the local ports not having increased the demand to the extent anticipated a few weeks ago. There are, however, a few complaints made of the want of vessels of heavy tongree and, on the other hand, a general complaint on the part of propage and, on the other hand, a general complaint on the part of propage.

nage, and, on the other hand, a general complaint on the part of proprietors as to the lowness of prices, the keen competition, it is said. preventing any margin being left for a profit. At several of the collieries the output has been greatly reduced, but, notwithstanding this, the hands employed are not working more than half time. The principal clearances being made are for the mail packet stations, French ports, and continental markets, but the exports generally are below the average. There is about an average quantity of house coals being sent to the West of England and Irish houses, but a considerable increase in the demand must take place before the resources

of the collieries in the definand must take place before the resources of the collieries in the district are called fully into requisition.

Judgment in the case of "Pillar r. the Liyuvi Coal and Iron Company (Limited)" was delivered in the Court of Common Pleas on Monday. The case was tried at Bristol Assizes, and a verdict given for the plaintiff, who sued the defendants for certain wages of which he had been deprived. Mr. Prideaux, Q.C., obtained a rule for the defendant to enter a nonsuit, and on this the Court delivered judgment. The first question that arose was whether the plaintiff was an artificer under the provisions of the Truck Act, and this the Court

decided in the affirmative in the plaintiff's favour. It appeared the defendants had a system of payment by cheques, by which the workinen only got one-fifth of their wages in cash, the rest having to be taken out in goods. This brought the defendants within the Truck Act, which forbids payments by cheques, unless the workmen acquiesed, and as the Court were of opinion that the system was coercive on the workmen, the plaintiff must have his payment in cash. There were also certain deductions for schools and other things, which were litegal, because there was no option on the part of the workmen. The rule was, consequently, discharged, Mr. Prideaux said the system had been discontinued, and he, therefore, would like to submit the case to an arbitrator, to have the amount to be paid settled. The Court said he might take out a summons for that purpose.

The puddlers at Tredegar have been on strike since Friday se'night, owing to a dispute about paying some debts due to the proprietor of the old company's shop. The bulk of them deny their liability, but some have expressed their willingness to pay the amounts claimed by instalments of 10s. a month. Since then we understand the dispute has been arranged.

At the Aberdare Police Court, on Tuesday, Mr. Evans, manager of the Werfa Colliery, was fined 3t. and costs, for allowing a boy under 10 years of age to work underground. For the prosecution it was said that defendant had been repeatedly cautioned, and for the defence it was urged that Mr. Jones, the underground agent, had employed the boy, and that Mr. Evans, as soon as he heard of it, got all boys under the prohibited age removed.

A meeting of colliers and others was held at the Temperance Hall, Aberdare, on Tuesday evening, for the purpose of opening a subscription for the relief of the widows and orphans left destitute by the late explosion at Ferndale, and also to take measures to establish a permanent relief fund. Mr. George Wilkinson occupied the chair. The following resolution was unanimously passed —"That

THE TIN-PLATE TRADE.—The quarterly meeting of the trade was held at Gloueester, on Thursday, Mr. Woodruffe, of the Machen Works, Monmouthshire, in the chair. The reports received from the various works as to the present position of the trade were extremely unsatisfactory, the relative price of tin-plates, as compared with that of the raw material, being lower than was hardly ever known before. The exports for the first six mouths of this year showed an increase over the corresponding period of last year of upwards of 200,000 boxes, but notwithstanding this fact many of the extabilishments have not been employed more than half time during the last quarter, which goes to prove that the multiplication of new works has been far too rapid in proportion to the increase in the demand. It will be remembered that at the last quarterly meeting a resolution was passed to reduce the make, and on Thursday the makers again resolved, "That as the ruling prices for tin-plates are still unremunerative the meeting recommends that the reduction of make shall continue until such time as prices improve." The continues high in price, but the circular headed "Lombard Metal Exchange" did not seem to have much influence on the meeting, and the opinion was general that as stocks are lacreasing lower quotations will soon follow. The attendance of manufacturers was large, and among the buyers sepresented were Nash and Co., Liverpool; Johnson, Clapham, and Morris, Manchester; Van Dadelszen and North, London; and Eddington and Co., New York.

THE LINCOLNSHIRE IRON DISTRICT.

Although North Lincolnshire is the most recently-discovered of Although North Lincolnshire is the most recently-discovered or our ironstone districts, and one in which a very large quantity of ore is now raised, yet for some reason or other it appears to have escaped that notice which has been accorded to localities of considerably less importance. Some seven years ago there was little or none of the stone used, there being no furnaces erected, yet in 1866 the quantity of ore raised was 175,720 tons; and in 1867 it had increased to 192,213 of ore raised was 175,720 tons; and in 1867 it had increased to 192,213 tons, of which 105,625 tons were used in Lincolnshire, and 86,587 tons exported. In 1866 the pig-iron made in the district was 13,765, and in 1867 no less than 25,579 tons. The ironstone fields, which are as yet in their infancy, not being defined, extend for many miles, in some parts coming quite close to the surface, and in others lying at a considerable depth. There are some peculiar features in connection with the stone, which will be found of interest to the geo-

lying at a considerable depth. There are some peculiar features in connection with the stone, which will be found of interest to the geologist as well as to the lover of palæontology, as the stone abounds with fossils.

Frodingham, which is situate midway between Doneaster and Grimshy on the line of rallway opened about two years ago, is the locale of the furnaces, and the station from which the ironstone is sent into Derbyshire and Yorkshire. It is only distant some four or five miles from Keadby, a sort of lained port, to which the tide comes up, and from which a large business is done in coal from the South Yorkshire coal field to the Humber. In going through the district a day or two ago were nade stream of the station state with the stream of the station of of th

are used in smelting. The drops for the material are at the bottom of the incine of the furnace, and an engine draws up all that is required. The limestone used by the furnaces is brought from Appleby, a distance of about four miles, where it is got quite close to the surface. The firm are just now sinking a shaft at Stanton, about three miles from the works, and have reached the top of the stone at a depth of 110 ft. A good deal of the ore is sent into Yorkshire as well as to Staveley, from which the wagous return loaded with the coal and coke required for the furnaces. The output of pig from the two furnaces is upwards of 40 tons per day. The two furnaces at Frodingham were put up in 1843; they are brick, without casing, and are 60 ft. In height. From one of them the gas is taken off from the top to supply the boiler, the other being an ordinary open one. The foundation for a third furnace has just been put down, and it is expected will shortly be erected. The engine-house is quite a model of what one should be, and is evidently taken the greatest care of. There are two blast engines, each of 50-horse power, of somewhat peculiar construction, and said to be about the only two manufactured on the same principle. They are on COULTHARD's patera, by which India-rubber balls are introduced instead of valves, and they work remarkably well. There are five boilers, 75 ft. long, and of sufficient power to work engines of twice the capacity of those in use. There is also a horizontal engine for conveying the stone and other material up the incline to the top of the furnaces. The ironstone is worked here as at the Trent Works, nearly from the surface, but not to such a great depth. Nothing but coke is used in the furnaces, most of which comes from South Yorkshire, the firm haying a range of some 60 large ovens at Silkstone; but in the present

state of the coal trade it appears that it can be bought rather cheaper than it can be produced at Mr. CLIFT'S own place. Another important feature in connection with the smelling is that there is smillclent limestone in the oreas is required, thus saving a good deal of trouble in carting, as well as expense. For the breaking of the slag one of Blake's patent crushers is used, and is found to act very well. The average quantity of pig-iron made is about 45 tons per day. A short distance from the last-named furnaces is the North Liucolnshire Iron Works. They consist of one large furnace, cretched by Mr. ADAMSON, formerly of the Penisione Steel Works. It is 50 ft. high, 21 ft. in the bosh, and 8 ft. In hearth. In the first instance the furnace was built 70 ft. high, with a large bell at the top; but an explosion which took place about two years ago brought down a large portion of the top, and its height has not since been increased. There is a biast-engine of 80-horse power, with five boliers, 80 ft. long and 5 ft. in diameter. The material for the furnace is taken from the bottom by a holst, for working which a pair of small rugines are coupled together. The ironstone got about the works has to be elected with great care, as some of the stone cannot be used owing to the very large quantity of limestone which is in it, in some instances to the extent of fully 40 per cent. As in most of the furnaces now being made, the gas is taken from the top for heating the boliers. The production of Iron averages from 30 to 40 tons daily. The Park Gate Company are also engaged in raising ore for their works near to Rotherham, and a good deal also goes to supply the furnaces belonging to the Yorkshire Iron and Coal Company, at Ardsley, near Leeds.

The iron produced from the Lincolnshire ore is soft and pliable, and is in good demand for converting into wire, hoops, and for casting purposes. It is also largely used for mixing with the Yorkshire and Derbyshire stone. The lessor, it may be stated, has built a large number of hous

IRON MAKING IN THE CLEVELAND AND STAFFORDSHIRE DISTRICTS.

[A practical correspondent, who has favoured the Wolverhampton Chronicle with two previous communications on the above subject, based on what he witnessed in Yorkshire during the recent visit of mining engineers and others from South Staffordshire and East Worcestershire to that part of the country, has sent the following remarks, in continuation of his previous articles.]

what was provided communications on the areas angrees, masses on was a service with the control of the country, has sent the following remarks, in continuation of his previous articles.]

I proceed to speak of improvements which we as win operation in the Cleveland district, and which are worthy of notice in Staffordshire—focurse I mean of Staffordshire irom works generally, being well aware that some have been adopted successfully by a few Staffordshire firms, thus further proving their value, and also their applicability to iron manufacture in this county. On entering the Cleveland iron-making district anyone from Staffordshire must be struck with surprise that not a flame is to be seen coming from any of the furnaces, except at intervals for a few moments. This is consequent on their way of utilising the tunnel-head gases. They close the throats is resided on their breaks of the furnace, has no bottom, but the opening is filled by a cone held in its place by machinery so arranged that when the cap is charged it can be lowered, and so permit the materials charged to escape into the furnace, has no bottom, but the opening is filled by a cone held in its place by machinery so arranged that when the cap is charged it can be lowered, and so permit the materials charged to escape into the furnace, its control of the contro I proceed to speak of improvements which we saw in operation in the Cleveland district, and which are worthy of notice in Stafford-

shall pass the blast slowly enough to cause it to be heated to the same temperature as the pipes it is passing through. Iron pipes may be safely kept at a dill red-heat, as witness a plumber's iron. A better way still is to use Cowper's or Whitweil's fire-brick stoves. Where it is wanted to keep the blast at such a temperature as shall easily smelt lead or zinc, one of the best ways of proving its temperature is to drill a half or three-quarter inch hole nearly through the cast-iron of muzzle pipes, and put a bit of zinc or lead to boil; in trying, pass a bit of wire through the metal to see if it is in a liquid state. Another thing of which the Cleveland frommasters are very careful, and which we have proved the very great value of, is to clothe every bit of hot-blast pipe very carefully with some good non-conductor. The chapest and best plan of doing this is—Take one part of salt, one of whitening, and two of puff of cinder (to make puff of cinder fill a moulder's hand-ladie with liquid cinder, and then empty the cinder into cold water; it must be crushed afterwards). To the above four parts add a good quantity of cow-hair, and mix up with water to a proder consistency for plastering. For first coat make it so liquid that it can be put on with the whitewash brush, and afterwards lay it on with a trowd as wrap it with iron wire, and you can continue this to any thickness you like.

Another most valuable improvement which they invariably use is that of close-running calcining kilns for burning the ironstone. This is doubly valuable to us in Staffordshire, on account of the cost of our ironstone as compared with theirs. Ironstone raw costs them from 3s, to 5s, 6d, per ton, delivered into their kilns; while the expense of ours is from 17s, to 18s,; klins also save largely

in fuel and labour, 1 ton of very fine slack being enough to calcine 22 of stone whilst one man and an engine-boy can calcine all the stone required to mak

whilst one man and an engine-boy can calcine all the stone required to make 400 tons per week.

The Yorkshire mode of running the cinders on to the top of wagons is also attended with a large saving of labour.

No doubt there are other things which escaped my eyes, but these are quite enough to show the rapid strides the northern masters have made, and how important it is we should adopt all useful improvements.

COAL MINING IN YORKSHIRE.

The Denaby Main Colliery, situate about one mile from Mexborough and close to the line of railway running from Doncaster to Barnsley, has of late obtained considerable notoriety, owing to the attempt being made to work it on free labour principles. Independent of the attention which it has received from that cause, however, it has some special claim to notice not only as being the nearest colliery to that important formation the magnesian limestone, but as being the deepest pit which has been sunk in Yorkshire to that most valuable held of each known as the Barnsley seam. From its great depth, also deepest pit which has been sunk in Yorkshire to that most valuable bed of coal known as the Barnsley seam. From its great depth, also, it has been proved to be the thickest of any as yet found in the district, a matter of no small importance in so large a field, which as yet has only been very partially developed. Indeed, what is usually termed the Yorkshire coal field should, in fact, be termed the Midland coal field, seeing that its southern extremity commences not far from Nottingham and extends near to Normanton, a distance of something like 70 miles. The coal itself varies in quality in different localities, being most valuable in South Yorkshire, where it varies in depth and thickness considerably, as will be seen from the following figures:—

Depth. Thickness.

localities, being most valuable in South Yorkshire, where it varies in depth and thickness considerably, as will be seen from the following figures:—

Depth. Thickness.

Wombwell Main Yards 225 7ft.11 in. Thoybergh Hall 288 78 8 Darfield Main 388 8 0 Lund Hill 4 80 Swatthe M. 1 230 8 6 Tho Oaks 230 8 6 Tho Oaks 294 8 8 8 Mount Oaborne 192 9 3 North Gawber 192 9 9 3 N

Melton Field
Coal, very coarse

The area of the coal field is between 2000 and 3000 acres, belonging to Messrs. Andrew Montague, A. Fullerton, &c. When in full operation from 800 to 1000 tons can be drawn out per day, and for the removal of which there is every facility, the colliery lying in close proximity to the railway and also to the canal belonging to the River Dun Company, who guarded their interests by putting a wooden bridge across it, compelling ordinary passengers to pay a penny toll for crossing. The colliery company, however, considering that the impost was a very unfair one towards the men residing on the Mexborough side of the works, had a boat made, and ferried them across. An arrangement, however, has been come to, and the right of crossing by all persons passing to and from the colliery has been secured by an annual payment. When the coal was reached last year it was worked by the mode known as the pillar and stall, but a change has just been made in the underground management, and the workings are nowbeing laid out by Mr. SMITH, of Monkwearmouth, for getting the coal by the long wall system. The colliery is now one of the most important in the South Yorkshire district, and the efforts now being made to work it by non-Unionists bid fair to be in every way successful, there being as many men now employed in it as in the present state of the trade are required.

ABOLITION OF PATENTS IN HOLLAND.—In the Second Chamber of the States General of Holland a Bill to abolish patents for industrial inventions has just been carried by an overwhelming majority of 49 against 8 votes. The Premier of the ex-Conservative Cabinct, Mr. Heemskerk, protested most energetically against this measure, and proposed to delay the discussion upon it till September, when the new Chamber will meet. He undertook that he would then lay before the members a Bill to improve the existing patent law. This proposal, however, was rejected. The Bill will, when approved by the first Chamber, come into operation on the day of publication.

Chamber, come into operation on the day of publication.

NEW PIPE JOINTS.—An improved pipe joint has been invented by Mr. WILLIAMS, of Liverpool, and has borne the experimental tests to which it has been submitted most satisfactorily. The joint consists simply of the union of a spherical butt-ended pipe with a cylindrical socketed one, the interior surface of the latter and the spherical surface of the former being turned and bored truly to the same dinensions, so as to maintain their contact throughout a single ring, which is fixed and certain in the cylindrical socket, but variable in the spherical butt, according to the angle of fixection vertically or laterally in which the pipes are united, and the perfection and tightness of the joint are unimpaired. The joint is, therefore, not only tight, but at the same time movable, so that the direction of the pipes may be altered within reasonable limits so as to adjust them to any unexpected disturbance of the steadiness of the ground which may arise.

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ONE cast-iron RING for WATER-WHEEL, 27 ft. diameter.
ONE DRAWING MACHINE, with 300 fms. \% in. best chain.
30 fms. 11 fn. PUMPS; 40 fms. 9 in. PUMPS; 23 fms. 8 in. PUMPS.
130 fms. \% in. Ison FLAT RODS. with pullies and brackets for same.

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ONE 50 in. cylinder ENGINE, 10 ft. stroke in cylinder, and 9 ft. in shaft with TWO Cornish BOILERS, 10 tons each.
ONE 56 in. cylinder PUMPING ENGINE, 9½ ft. stroke, equal beam; with TWO Cornish BOILERS.
ONE 60 in. cylinder PUMPING ENGINE; with ONE BOILER.
ONE 12 in. cylinder PUMPING ENGINE; with ONE 60 in Education of the Soverest Stransfer Water With ONE 60 in. cylinder rotary STEAM ENGINE, with ONE 60 in Education of the Stransfer Stransfer Water W

POR SALE, cheap, a 16-horse power PORTABLE STEAM ENGINE, new, and with all recent improvements, guaranteed.
FIRST-CLASS PORTABLES, 5 to 25-horse power, on advantageous terms. Prize Medals awarded—Hamburg, 1863; Paris, 1867, &c.
FOR SALE, EIGHT very superior SECONDHAND PORTABLE STEAM ENGINES, 5 to 10-horse power, by eminent makers, in excellent condition.
BARROWS AND STEWART, ENGINEERS, BANBURY.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon.

IN the MATTER of the COMPANIES ACT, 1862 and 1867, and of the EAST WHEAL RUSSELL MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Tuesday, the 20th day of July inst., and following day if necessary, at Eleven o'clock in the forenoon, at the EAST WHEAL RUSSELL MINE.

o'clock in the forenoon, at the

EAST WHEAL RUSSELL MINE,

In the parish of TAVISTOCK, within the said Stannaries, in lots, all that the
unexpired INTEREST of the said company in the SETT under which its mining
operations have been carried on, and also the undermentioned MINING MACHINERY, MATERIALS, and EFFECTS, viz.:—
ONE 4-10. cylinder STEAM PUMPING ENGINE, 9 ft. stroke, equal beam,
with TWO 10 ton BOILERS.
ONE 30 in. cylinder WIME ENGINE, adapted for pumping or hauling, with
ONE 10 ton BOILER.
ONE 12 and 7 in. combined WHIM ENGINE, Cornish crusher, with 2 ft. rolls,
balance bot complete, cast-tron ditto.
50 ft. shears and pulleys, complete; 2 sarm capstans, 100 fms. 12½ in. flat-rods,
28 13 in. pumps, 35 12 in. ditto, 3 15 in. ditto, 110 fm. ditto, 16 9 in. ditto, 28
28 in. ditto, 112 in. windbore, 2 12 in. hi pieces, 2 12 in. door and doorpieces,
111 in. H piece, 1 11 in. door and doorpiece, 212 in. plunger pole, box and gland,
31 in. ditto, 18 pieces of 7 in. wood main ron, 12½ in. by 7½ in. tram saddies,
punches and tram wagons, shaft rolls, cobbing mills, loops and chains, whim
pulleys, 2 crab winches, travelling bob, several tons of bucket rods, pump rings,
lot of whim and other pulleys, zinc and other air pipes, 2 ligging machines,
hutches and flooring, sample table, about 200 fms. launders, lot of new and other
serval tons of weather and the shamers, box of gun-cotton and cartridges, 23
sleves, screw stocks, taps and plates, about 200 fms. launders, lot of new and other
from blocks; beli, beams, scales, and weights; 3 large wood dressing sheds, and
several 10c ft. of floors; 2 20 in. and 29 in. drying pipes; grindstone and frame,
lot of new nails, 2 anvils, bellows, vice, mandrili, smiths and mines' tools,
wheel and handbarrows, balk timber; account-house furniture, and a variety
of other articles and effects in general use in mines.
For further particulars, apply to the officer in possession at the mine.
HODGE, HOCKIN, AND MARRACK, Solicitors, Truro.

Dated Truro, July 7th, 1869.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the VIVIAN KAOLIN WORKS COMPANY (LIMITED).—Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 1st day of July instant, presented to the Vice-Warden of the Stannaries by George Houghton Arnall, of Truro, merchant, and John Hicks Dingle, of Lostwithlel, merchant, creditors of the said company, and that the said petition is directed to be heard before the Vice-Warden, at the sittings of the Court, to be holden at the Prince's Hall, Truro, within the said Stannaries, on Wednesday, the 4th day of August next, at Twelve o'clock at noon.

and noon.

Any contributory or creditor of the company may appear at the hearing and pose the same, provided he has given at least two clear days' notice to the litioners, their solicitors, or their agents, of his intention to do so, such notice be forthwith forwarded to P. P. Smith, Esq., Secretary of the Vice-Warden,

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same from the petitioners, their solicitors, or their agents, within 24 hours after requiring the same, on payment of the regulated charge per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 28th day of July instant, and notice thereof must at the same time be given to the petitioners, their solicitors, or their agents.

Instant, and notice thereof must at the same time be given to the petitioner their solicitors, or their agents.

HODGE, HOCKIN, AND MARRACK, of Truro, Cornwall (Solicitors of the Petitioners).

GREGORY, ROWCLIFFES, AND RAWLE, of 1, Bedford-row, London (Agents of the said Solicitors).

Dated Truro, July 5th, 1869.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall. IN RE CHIVERTON MINE.

TO BE SOLD, pursuant to an Order made in a Cause of Clogg v. Crawford and Others, dated the 14th day of June last, BY PUBLIC AUCTION, at the Registrar's Office, at Truro, on Wednesday, the 21st day of July instant, at Twelve o'clock at noon, the following PARTS or SHARES, viz.:—

lat day of July instant, at Tweive O'clock at hoon, the following FARAS of HARES, viz. :10 (3000th) of the defendant, D. R. Crawford;
90 (3000th) of the defendant, Duncan Crawford;
10 (3000th) of the defendant, Hugh Henderson;
1 (3000th) of the defendant, Elizabeth Allen; and
7 (3000th) of the defendant, J. B. Venus.
Mand in the said MiNE:
(Agent for A. C. L. Glubb, Plaintiff's Solicitor, Liskeard).
Dated Registar's Office, Truro, 8th July, 1869.

In the Matter of the Companies Act, 1862,

AND THE BWLCH-Y-PLWM LEAD MINING COMPANY (LIMITED). TO BE SOLD, BY AUCTION, by Messrs, E. OWEN AND SON, on Thursday, the 15th day of July, 1869, at Three o'clock in the afternoon, at the Queen's Hotel, Chester (subject to conditions to be then and there produced), the company's interest in all that valuable LEAD MINE, called

duced), the company's interest in all that valuable LEAD MINE, called

"THE BWLCH-Y-PLWM,"

Situate in the parish of LLANFROTHEN, in the county of MERIONETH,
NORTH WALES, together with the PLANT, consisting of a valuable WATERWHEEL and gearing, PUMP, WASHING GEAR, and other effects, all in good
working condition.

The property is offered for sale for the residue of a term of 21 years, which
commenced on the 25th day of March, 1863, and subject to a dead or minimum
rent of £100 per annum; but the lessor has consented to accept a surrender of
the present lease, and grant a new one, at the reduced annual dead rent of £25
to a responsible purchaser.
For further particulars, apply to Mr. WILLIAM CASSON, Port Madoc; Mr.
WILLIAM CRIPPIN, Seymour House, Old Trafford, Mauchester; Mr. DANIEL
CLARKE, No. 13, Pitt-street, Liverpool; Mr. WILLIAM RADOLIPPE, Solicitor,
No. 12, Sweeting-street, Liverpool; or to the Auctioneers, Bridge-street, Carnarvon.

GOLDSBERGS COPPER MINES, IN NORWAY.

GOLDSBERGS COPPER MINES, IN NORWAY.

TO BE SOLD, BY AUCTION, on the Exchange, Bergen, Norway, on the 16th of August, 1869, a TWO-THIRD SHARE in the above mines, now held by the assignees of the estate of Mr. Job Petersen, including the MINES, called DOKKEN and FLAAGEN, and the LAND thereunto adjoining.

According to an agreement between the owners of the above property, each owner has a right of voting in proportion to his share or shares in the company. The mines are situated about 12 geographical miles south of BERGEN, on STOOD ISLAND, close to the sea. The entrance to the mines is from 10 to 40 ft. above the level of the sea, close to a good harbour for vessels of every size.

The mineral produced by these mines is suiphur ore, containing, according to assays made in Swansea, from 3 to 3% per cent. of fine copper. The price obtained in Newcastle-on-Tyne has been \$2 to \$2 18s, per ton gross.

The mines were opened in the year 1865, and have since been worked with the following results:

Met proceeds of Working

mineral worked.

Sp. dir.

Sp. dir.

Sp. dir.

Sp. dir.

Sp. dir.

Sp. dir.

Oct., 1865, to Dec. 31, 1866 ... 2,487-29 ... 1,526-114 ... 96-105

Apr. 1, 1867, to Dec. 31, 1867 ... 2,945-98 ... 1,947-106 ... 997-112

Jan. 1, 1868, to March 31, 1868 ... 2,487-29 ... 1,526-114 ... 96-105

Apr. 1, 1868, to March 31, 1868 ... 2,487-29 ... 1,526-114 ... 96-105

Apr. 1, 1869, do Apr. 1, 1869 (abt.) 40,000 ... 13,500 ... 26,500 ... The rich finding of ore, which took place last year, is at present broken off, and, on account of present circumstances, the working is much less. The works still progress in smaller workings at four different points. Ore is still found, but in a smaller quantity, but under such circumstances that there is every belief that large seams of ore will scon be won, the more so as on the several occasions when the seams have narrowed the ultimate result has been highly satisfactory.

atisfactory.

For further particulars, apply to —

Mr. BEYER, T.S., and H. L. CHRISTIE.

Bergen, Norway, 23d of June, 1869. Or to G. E. BIRD AND CO., Swansea.

SALE OF MINE PROPERTY-BY TENDER

SHROPSHIRE COPPER MINING COMPANY (LIMITED).

BY ORDER OF THE LIQUIDATOR.

BY ORDER OF THE LIQUIDATOR.

TO BE SOLD, BY TENDER, all the ESTATE and beneficial and other INTEREST of the said company of and in the LEASE or GRANT of MINERALS in, under, or upon WESTCOTT FARM, and other parts of the GATTEN ESTATE, SIROPSHIRE, demised by a certain indenture of lease thereof, dated the 30th day of December, 1865, and by a certain other indenture; and also all the MACHINERY, PLANT, MINING GEAR, TOOLS, TACKLE, MATERIALS, ORES, HALVANS, and APPURTENANCES of the said company, the said MINES and MINERALS belonging or appertaining.

The Liquidator will receive at his offices, No. 30, Castle-street, Liverpool, sealed tenders, endorsed "Tenders for Shropshire Copper Company's Mine, Machinery, and Effects, at Westcott," up to Two o'clock on Thursday, the 16th day of July, 1869, at which time and place the said tenders will be opened, and the purchaser will be required to pay a deposit of 20 per cent, on the amount of the purchase which the machinery and effects, the purchase to be completed and the balance of the purchase-money paid, within two months from the Liquidator does not bind himself to accept the highest or any tender.

The purchase machinery, and other effects at the Mine, can be had on production to Capt. JAMES NANOARROW, on the Mine, of an order for that purpose from the Liquidator, and any further information, with inspection of the leases and schedule of the principal effects, obtained from the Liquidator, June, 1869.

Mr. T. W. READ, 30, Castle-street, Liverpool.

SOUTH CARADON MINE.

M. R. SOBEY WILL OFFER FOR SALE, BY PUBLIC NUTTION, at the London Inn, Liskeard, on Monday, the 12th of July next, at Three P.M.: TWO (1-512th) PARTS or SHARES in the above VALU-ABLE DIVIDEND-PAYING MINE, acknowledged to be one of the most sound and prosperous speculations in the counties of Devon and Cornwall.

Dated Auction Offices, Parade, Liskeard, June 24, 1869.

WEDNESBURY.

VALUABLE FREEHOLD LAND AND MINES.

MESSRS. JOSEPH COOKSEY AND SON (by the direction of the Trustees of the will of Benjamin Round, Esq.) WILL SELL, BY AUCTION, at the Hen and Chickens Hotel, New-street, Birmingham, on Thursday, July 15, 1889, at Four o'clock for Fire precisely in the afternoon, subject to conditions to be then read—

day, July 15, 1889, at Four o'clock for Five precisely in the afternoon, subject to conditions to be then read—

LAND AT OAKESWELL END.

LOT 1.—A piece of valuable FREEHOLD BUILDING LAND, situate in Wednesbury, being a portion of a field known as "Synnemore Hall Piece," otherwise "Syllemore," having a frontage of 90 yards to the road leading from Oakeswell End, Wednesbury, towards West Bromwich, containing 1 acre, or thereabouts.

LOT 2.—A similar piece of LAND, adjoining Lot 1, with a frontage of 98 yards to the road leading from Oakeswell End aforesaid to Wood Green and West Bromwich, and containing 1 acre, or thereabouts.

LOT 3.—A corner piece of excelient BUILDING LAND, adjoining Lots 1 and 2, and having a frontage on one side of 100 yds. 1 ft. to the road leading from Oakeswell End aforesaid to Wood Green and West Bromwich, and on the other side a frontage of 111 yds. 1 ft. to the road leading from Oakeswell End aforesaid to Wood Green and West Bromwich, and on the other side a frontage of 111 yds. 1 ft. to the road leading from Oakeswell End aforesaid to West Bromwich, and containing in the whole 1 A. 0 R. 1½ P., or thereabouts.

Lots 1, 2, and 3 will in the first place be offered in one lot, and if not sold, will afterwards be offered in lots as above.

LANDS AT POTTER'S LANE AND LEA BROOK.

Lots 1, 2, and 3 will in the first place be offered in one lot, and if not sold, will afterwards be offered in lots as above.

LANDS AT POTTER'S LANE AND LEA BROOK.

LOT 4.—A piece of FREEHOLD LAND, being parts of "Ball Hole Piece" and "Doctor's Piece, with the ungoiten MINERALS thereunder, situate adjoining the Great Western Railway, near to the Wednesbury Flour Mill, and fronting to a road leading out of Potter's Lane, with another approach from Bridgestreet, containing 1A. 2 B. 20 P., or thereabouts.

LOT 5.—Three pieces of FREEHOLD LAND, being parts of "Ball Hole Piece," "Doctor's Piece," "Cooper's Upper and Lower Pieces," and "Grabb's Piece," "bettor's Piece," "Cooper's Upper and Lower Pieces," and "Grabb's Piece," situate near Lot 4, and bounded by the Great Western Railway, the South Staffordshire Railway, and the River Tame, with right of road under the said railways into Potter's Lane, containing 10 A. 12, 304/2, P. surface measurement; orgether with the remaining MINES and MINERALS under part of the above land, containing 10 A. 2 B. 324/2, P. and also under the Great Western Railway, and pilece of land on the south side thereof, containing together 2 R. 22 P.: the total mineral area being 13 A. 2 B. 324/2, P.

N.B.—Part of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Part of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Part of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on the plan, and containing 2 A. 3 R. 284/2, P., N.B.—Fart of this lot, striped pink on th

GLAMORGANSHIRE

FREEHOLD ESTATE, RESIDENTIAL AND MINERAL—two miles from Pontypridd, four miles from Liantrissant, and twelve miles from the important and flourishing port of Cardiff—comprising the FARMS of TYR MAB ELLIS, COED-CAE-DDU, and PEN-COED-CAE, MANSION and GROUNDS, GROUND RENTS, STONE QUARRIES, and the various SEAMS of COAL (including the celebrated steam coal measures), which underlie the estate.

MR. D. T. ALEXANDER is favoured with instructions from the Devisee, under the will of Colonel John Hewett, to SELL. BY AUCTION, at the Angel Hotel, Cardiff, on Thursday, the 29th day of July, 1889, at Two for Three o'clock, the IMPORTANT and VALUABLE PROPERTY, known as the

TYR MAB ELLIS ESTATE,

In the following, or such other lot or lots as at the time of sale shall be declared.

LOT I.—The FARM, called "PEN-COED-CA" (otherwise Caerlan and Tylwyd), with HOMESTEAD, BUILDINGS, COTTAGES at rack and ground rents, and productive PASTURE and ARABLE LAND, together with valuable STONE QUARRIES in full work, containing in the whole about 116.4.1 R. 5 P., situate in the parishes of Liantwit Vardre and Llantrissant, in the occupation of Mr. LOT II.—The MANSION of MARKET.

in the parishes of Liantwit Vardre and Liantrissant, in the occupation of Mr. John Joskins, and others.

Lot II.—The MANSION of TYR MAR ELLIS, with the BUILDINGS, PLEA-SURE GROUNDS, GARDENS, ORCHARDS, and productive LANDS thereto belonging, containing in the whole 78.4. 3 r. 34 r., or thereabouts, situate in the parishes of Liantrissant and Liantwit Vardre, in the occupation of Capt. Hewett, R.M., and others.

Lot III.—The FARM, called "COED-CAE-DDU," with HOMESTEAD BUILDINGS, COTTAGES at rack and ground rents, and productive PASTURE and ARABLE LAND, containing in, the whole 100 A. 3 R. 1 r., or thereabouts, situate in the parishes of Liantrissant and Liantwit Vardre, in the occupation of Mr. James Coombs, and others.

The valuable MINERALS underlying each lot will be included in and sold therewith.

The attractive mansion and grounds are in an admired situation of the neighbourhood, commanding panoramic views of varied beauty and great extent, and affording a residence suitable to the requirements of a capitalist desiring to possess and evelope the valuable resources of the estate.

The roports of eminent mining ongineers leave no doubt that the remunerative seams of coal found at Merthyr, Aberdare, Rhondda, and Liantwit will all be proved upon this estate.

The Taff Vale and Liantrissant Railway runs at the foot of the estate, and

tive seams of coal found at a metaly, Aberdare, Rhohodus, and Liahuwis will all be proved upon this estate.

The Taff Vale and Llantrissant Railway runs at the foot of the estate, and affords communication with the Liynvi, Ogmore, and Llantrissant Junction Railways.

Lithograph plans, and particulars and conditions of sale, can be had, on and after the 1st July, upon application to H. Holland Burne, Esq., 15, Vineyards, Bath; or to the Auctioneer, Institute Chambers, Pontypridd.

WHEAL FALMOUTH AND SPERRIES MINES,

WHEAL FALMOUTH AND SPERRIES MINES,
In the Parlsh of KEA, CORNWALL.

TENDERS will be RECEIVED not later than FRIDAY, the
30th instant, for the WHOLE of these EXTENSIVE MINING SETTS,
with the PLANT thereon.
These mines are believed to hold out great promise of success, as may be judged
by the following brief report:—
TIPPET'S ENGIES-SHAFT.—At and above the 80 fm. level, mundic, copper,
and tin ores were raised to a large extent. The shaft has been sunk to the
104 fm. level through a promising lode, when it was abandoned without being
explored, from the inability of the then proprietors to carry it on. Between
this polut and Trestdeider's ongine-shaft three whim-shafts are sunk—Barrett's,
Jenning's, and Kitto's—to the 50 and 60 fm. levels, from all of which large returns were made.

TRESIDDER'S.—At the 50 fm. level and above the workings have been on an
extensive scale, and very productive. The shaft is sunk to the 69 fm. level,
where the lode produces stones of lead, copper, and has a highly promising appearance. At this shaft the lode has in places produced 50 tons of mundic per
fathom, and has paid the costs of working the mine for the past five years.
From the commencement of working by the present company the returns have
realised about £80,000, and during that period the mine has been nearly selfsupporting, the capital expended amounting to £10,000 only.

The mines are situate immediately to the east of the celebrated Great Con-

supporting, the capital expended amounting to £10,000 only. The mines are situate immediately to the east of the celebrated Great Consolidated Mines, and on the same lodes, and also parallel and adjoining to the Wheal Jane, a dividend paying-mine. The plant is very extensive, including, at Tippet's, an 80 in. cylinder PUMP-ING ENGINE, 10 ft. stroke, equal beam, with THREE BOILERS; 2 cast from balance bobs; 26 fms. 18 in. plunger lift; 10 fms. 18 in. drawing lift; 25 fms. 10 in. house lift. These are all fixed and ready for immediate working, and at surface a large quantity of spare 18 and 19 in. pitwork, 1 24 in. steam whim and capstan.

and capstan.

At Tresidder's—ONE 50 in. cylinder PUMPING ENGINE, 10 ft. stroke, TWO
BOILERS, 60 fms. 14 in. pitwork; 22 in. steam whim, capstan, and crusher;
and including throughout all the plant necessary for the working of these extensive and very promising mines.

For further information, apply to Mr. John Pascoe, the purser, Truro; or to Mr. Chas. Hawke, Chairman of the Committee, Truro, to either of whom the tenders may be addressed.

The mines are held under lease from Lord Falmouth, at 1-20th dues, to \$2 years, dated 24th March, 1859.

CARMARTHENSHIRE.

VALUABLE COAL FIELD.

TO BE LET, with immediate possession, all the VALUABLE SEAMS of ANTHRACITE COAL under the HARBERDEG FARM, containing, by estimation, SIXTY ACRES.

The above farm is situate about 4 miles from the scaport town of Lianelly. The Burry Port and Gwendraith Vaic Railway passes within ½ mile of the farm.

farm.

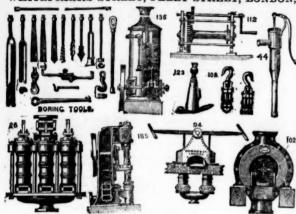
Herberdeg lies in the immediate vicinity of the Conway and Foy Collieries, and the coal fields supplying the above collieries has been proved to lie under it. The tenant of the farm has been raising sufficient coal for his own use by means of a small shaft.

A copy of the report of Mr. Hay, C.E., will be furnished (gratis).

For further particulars apply to Mr, P. A. VAUGHAN, 37, Beaumont-square, London, E.

OWENS AND CO.,

Andraulic and General Engineers, WHITEFRIARS STREET, FLEET STREET, LONDON,



MANUFACTURERS OF

BORING TOOLS, for testing ground for Minerals. Bridge Foundations, Artesian Wells, &c., to any depth.

No. 26.—Treble Barrel and other Deep Well Pumps.

No. 136 .- Vertical and other Portable Steam-engines.

No. 185.—Horizontal and Vertical Steam Pumping-engines.

No. 112.—Single and Double-purchase Crab Winches.

No. 108.-Pulley Blocks of all sizes.

No. 123.—Bottle and other Lifting Jacks.

No. 94 .- Double-barrel Pumps, for Mine or Quarry use.

No. 44 .- Portable Wrought-iron Pumps, ditto ditto No. 102.—Bernays's Patent Centrifugal Pumps, of all sizes.

ALSO EVERY OTHER DESCRIPTION OF HYDRAULIC AND GENERAL MACHINERY,

COMPRISING TURBINES, WATER WHEELS, WIND ENGINES, THE HYDRAULIC RAM, FIRE ENGINES, &c. Catalogues and Estimates on application

IMPROVED VALVES AND TAPS, FOR WATER, STEAM, GAS, &c.,

MADE BY MESSRS. MATHER AND PLATT.

SALFORD IRONWORKS, MANCHESTER. ILLUSTRATED SHEET, WITH PRICES, Can be had on application.

GENERAL MINING COMPANY FOR IRELAND

MAKERS OF ZINC OXIDE.

OFFICES,-29, WESTMORELAND STREET, DUBLIN. MINES AND WORKS, SILVERMINES, COUNTY TIPPERARY.

The Directors beg to intimate to PAINT and COLOUR MAKERS, INDIA RUBBER MANIFACTURERS, SHIPPERS, and the TRADE generally, that they have COMPLETED the ERECTION of WORKS for the MANUFACTURE of ZINO OXIDE, and that they are now producing ZINO WHITE of GREAT EXCELLENCE and PURITY.

Samples and terms shall be forwarded on application.

29. Westmoreland-street, Dublin.

THOMAS BAKER, Secretary.

TO COLLIERY PROPRIETORS.

U PWARDS of 6000 LARCH, 4000 OAK POLES, 200 OAK and OAK PLANKS upwards of 20 feet long; ELM COAL-PIT RINGS, ready OAR PLANAS aparts of the cut, in stock.
All kinds of ENGLISH TIMBER supplied in the round, and OAK and LARCH SCANTLING cut to sizes for railway and coal-wagon building.
Dealer in all kinds of BRITISH TIMBER.
MILLWRIGHTS, ENGINEERS, COACH BUILDERS, WHEELWRIGHTS, &cc., supplied on the most reasonable terms.

JAMES ATKINSON.

JAMES ATKINSON, No. 65, GRANBY ROW, MANCHESTER.

WILLIAM HANN AND SON beg to offer to SUPPLY COLLIERY OWNERS, and the public generally, with their improved STEPHENSON AND CLANNY PATENT SAFETY LAMPS, Which have been proved INEXPLOSIVE in the testing apparatus in the highest obtainable current of gas, of 48 ft, per second. These lamps are simple in their construction, burn with a steady and nearly uniform fiame in moderate currents, give a good light, and are in every respect practicable lamps. Price, No. 1, 8s. 6d each; if in quantities of a dozen and upwards, 8s. each; ditto, ditto of 100, at 7s. 6d. each citic, ditto of 200, at 7s. each, delivered free. No. 2 ls. each above the No. 1. Orders received by—

WILLIAM HANN AND SON,

HETTON COLLIERY, FENCE HOUSES.

DYNAMITE, OR NOBEL'S PATENT SAFETY BLASTING POWDER.

DYNAMITE is the SAFEST and most POWERFUL BLASTING COMPOUND in general use. Accidents are almost impossible, as it is only exploded by a strong percussion cap. It will not explode from a spark or concussion. If set fire to, it burns quietly and harmlessly away, without smoke or any explosion. Prepared in cartridges for mines and underground workings. Sold by—

WEBB AND CO., CARNARVON,

Sole consignces in England from the Patentee and Manufacturer.

IN THE TOWER FOUNDRY IS THE TYNE DEPOT FOR MACHINERY of every description for WOOD and IRONSTONE, CORN CRUSHING, and PUG MILLS. Also, AGRICULTURAL IMPLEMENTS.

PROPRIETOR—G. HARLE, JUN.,

NO. 49, MAPLE STREET, NEWCASTLE.

PURCHASERS of PORTABLE ENGINES and STEAM CRANES will do well to ask G. HARLE'S price for the same.

LABORATORY OF ANALYTICAL CHEMISTRY,—
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ESTABLISHED 1899.
ANALYSES and REPORTS on METALLIC ORES, METALS, &c., daily attended to by Dr. T. L. PHIPSON, F.C.S., Member of the Chemical Society of Paris, &c.

ASSAY OFFICE AND LABORATORY,
No. 2, CROWN CHAMBERS, CROWN COURT,
THREADNEEDLE STIEET,
CONDUCTED BY W. T. RICKARD, F.C.S., &c.
(Late MITCHELL and RICKARD).

Assays and analyses of every description of mineral and other substances manures, &c.
Gentlemen going abroad for mining purposes instructed in assaying, and the most improved methods of reducing gold, sliver, and other metals.

MINING PROPERTIES INSPECTED AND BEPORTED ON.

MINING PROPERTIES INSPECTED AND REPORTED ON.

PRITISH, COLONIAL, ÅND FOREIGN PATENTS,
REGISTRATION OF DESIGNS, COPYRIGHTS, TECHNICAL TRANSMICHAEL, HENRY.

Men. Soc. Arts, Assoc. Soc. Engineers, Compiler of the "Inventors' Almanac,"
and the Author of the "Defence of the Present Patent Law."

PATENT REGISTRATION AND COPYRIGHT AGENT AND ADVISER.
Mr. HENRY has had especial experience in technical French, and in French
Manufacturing and Commercial Matters.
Inventors advised in relation to Patents and Inventive and Industrial Matters. Printed information sent free by post. Specifications drawn and revised.

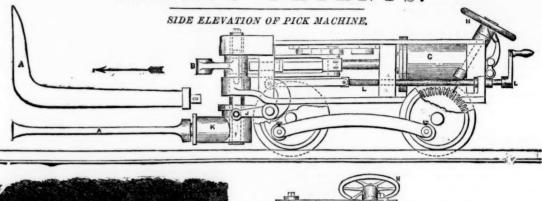
Bearches conducted. Abstracts, Cases, and Opinions drawn.

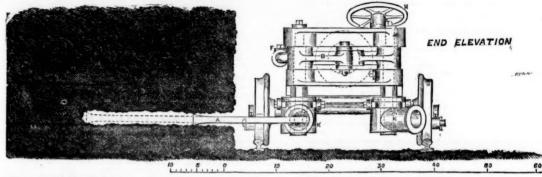
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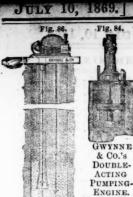
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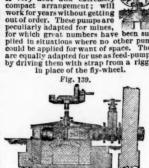
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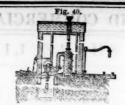
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HAND PUMP.

very neat and extrem

Fig. 106.

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BLAKE'S PATENT STONE BREAKER, In Changery.

BLAKE v. ARCHER, NOVEMBER 12, 1867.

His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Messrs. Thomas Archer and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and crdering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE'S, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING BLAKE'S PATENT after this notice.

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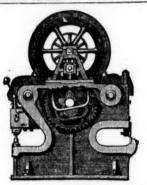
BICKFORD'S PATENT SAFETY FUSE

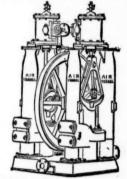
Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IMPERIAL EXPOSITION" held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; and at the "UNIVERSAL EXPOSITION, in Paris, 1867.



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This is in no respect a speculation, but an established business, and a safe nd profitable investment for capital. It may be confidently affirmed that no late quarry was ever offered to the public under such favourable circumstances, and the directors invite those who are not already aware of its high position

nd profitable investment for capital. It may be confidently affirmed that no late quarry was ever offered to the public under such favourable circumstances, and the directors invite those who are not already aware of its high postition to investigate its merits.

The slate is known throughout the kingdom, and is distinguished for every excellence of colour, purity, lightness, and strength, and is unsurpassed in any respect by any other slate in the Principality. The quarry has already produced several thousand pounds worth of slate, is in full working order, and is amply provided with every requisite in plant and machinery for carrying on the most extensive business. Slate, of which there are thousands now on the quarry, can be supplied to any extent. The buildings and sawing and planing machinery are in perfect orier, and of the best and most improved description. Less than £2000 will now complete the incline, and bring the quarry into a large monthly profit. The local manager states that slates and slabs of the value of £560 per month can be immediately produced, and the production can be rapidly extended, as the quarry is yet only in its infancy.

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Two of the directors represent the largest quarries in Wales, and, together with the general manager, hold between them nearly 2000 shares in this quarry.

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THE MINING SHARE LIST.

BRITISH	I	IVI	DE	A L	MIN	E	S.						
Thares. Mines.	P	aid. L	ast P	r	Business	T							
1500 Alderley Edge, c, Cheshire*		00			070							Jan.	
200 Botallack, t. c, St. Just	ni i	5 0	200	••	270	••						May	
4000 Brookwood, c, Buckfastleigh 1000 Bronfloyd, l, Cardigan*		0 0	_	**	20 22	••	11	9	0	0 1	2 0	April	1860
5094 Bwich Consols, s-l, Cardigan	4	0 0	-	::	20 22	::	0	5	0	0		.June	
6400 Cashwell, l, Cumberland		10 0	_				0	3	0	0		Aug.	
916 Cargoll, s-l. Newlyn	15	5 7	17		15 17		16			0 1	0 0	April	1869
916 Cargoll, s-l, Newlyn 1280 Chanticleer, l, Flint	0	78	-				0	1	0	0	0 6	Nov.	1868
2450 Cook's Kitchen, c, Illogan;	19	14 9	131/2		13 14		2	4	6	0	76	April	1868
509 Creegbrawse and Penkevil, t			-				2	5	0	1	5 0	April	
867 Cwm Erfin, l, Cardiganshire*	60	10 0	_				30	13	0	0 1	0 0	July	1869
128 Cwmystwith, I, Cardiganshire		0 0	_	••			177	10	0	2 ,	0 0	Feb.	1869 1868
280 Derwent Mines, s-l, Durham 1024 Devon Gt. Consols, c, Tavistock	1	0 0	160	**	145 165		132	0	0			May	1869
656 Ding Dong, t, Gulval‡		14 6	26		221/2 25		3	10	0	iı	0 0	May	1869
1432 Dolcoath, c, t, Camborne	32	4 6	125		120 125		224	2	6	3	0 0	June	
6144 East Caradon, c, St. Cleert	2	14 6	7%		61/2 7			11	6	0	2 0	July	1867
300 East Darren, I, Cardiganshire	32	0 0					166	10	0	2	0 0	Mar.	1869
6400 East Pool, t, c, Pool, Illogan	0	9 9	73/4		7 8		9	3	0	0	3 3	May	1869
1906 East Wheal Lovell, t, Wendron	3	9 0	13		141/2 15		4	16	0	0	5 0	May	1869
2800 Foxdale, I, Isle of Man*	25	0 0	-		07/ 41/		73	10	0	0 1	0 0	July	186
5000 Frank Mills, I, Christow		18 6	4	••	3% 4%		8	13	6	0	9 0	Apri	1861
3950 Gawton, c, Tavistock	4	0 0	19	**	71/6 181/6	••	10	15	0	0 1	0 0	Jan.	1866
5000 Great Laxey, t, Isle of Man* 3000 Great Northern Manganese*	5	0 0	-		1/2 10/2	**	10	10	0	5 1	.ct	Feb.	1869
5908 Great Wheal Vor, t, c, Helstont.	40	0 0	141/		131/2 14		14	11	0	0 1	10 0	June	1869
1024 Herodsfoot, l, near Liskeardt		10 0			42 44		49	10	0	1 1	0 0	Feb.	1869
2000 Holmbush and Kelly Bray, c*	1	0 0	-				0	1	0	0	1 0	May	1869
165 Levant, c, t, St. Just	10	81	-				1099	0	0	4	0 0	Jan.	1869
400 Lisburne, l, Cardiganshire		15 0					515	0	0	3	0 0	Mar.	
3000 Maes-y-Safn, l, Flint	20	0 0	29		28 29	••	5	0	0	0	5 0	Oct.	186
9000 Marke Valley, c, Caradon	1	10 6	8%	3	81/4 81/2	••		10	0	0	9 0	April	1866
3000 Minera Boundary, l, Wrexham * 1800 Minera Mining Co. l, Wrexham *	25	0 0	_	••		••	953	13	6	5	0 0	May	1869
20000 Mining Co. of Ireland, c, l, cl	7	0 0	1014		101/4 101/4		200	_	0	6 n	.ct.	July	
0000 Mwyndy Iron Ore*†	3	7 0	13		1% 1%		0	11	6	0	3 0	Feb.	1869
2000 North Levant, t, c, St. Just		12 0	-"		-/0 -/0		0	5	0	0		Mar.	
200 Parvs Mines, c. Anglesey*	50	0 0	-				162	10	0	2 1	0 0	Aug.	1869
5000 Penhalls, t, St. Agnes 2800 Prince of Wales, c, Calstock	3	0 0	-				0	6	6	0	4 0	April	186
2800 Prince of Wales, c, Calstock		12 6	11/4		11/4 13/8		0	8	6	0	1 0	Nov.	1868
1120 Providence, t, Uny Lelantt	10	6 7	35		33 35	••	88		6	1 1	0 0	Mar.	1869
512 South Caradon, c, St. Cleert	3	66	-		360 380	••	011	16	0	0	1 6	May	1869
6000 South Darren, l, Cardigan* 937 South Wh. Crofty, c, Illogan	24					::	2	0	0	0 1	0 0	May	1869
496 So. Wh. Frances, c, Illog.tt		18 9			12 14				6	1	0 0	Mar.	1868
940 St. Ives Consols, t, St. Ivest		15 0		á			0	10	0	0 1	0 0	May	1868
508 Summer Hill, l, Mold		18 6					2	5	6	0	5 0	Feb.	1868
6000 Tincroft, c, t, Pool, Illogant	9	0 0	16		5½ 16½ 21 22		21	1	0	0 1	0 0	May	1869
2000 Trumpet Cons., 1, Helston	11	10 0	23		21 22		8	14	0	0 1	4 0	April	1000
2000 Van, l, Llanidloes*	4	5 0	89	••	37 38			9	0	0	0 0	June	1869
3000 W. Chiverton, I. Perranzabuloet	10	0 0	48		471/2 49	••	35	6	6	3	0 0	May	
242 Spearne Moor, t, St. Just	6	20		••		••	ô	3		ô	1 0	July	1869
5000 West Godolphin, t, c, Breage 2582 West Great Work, t, Breage	0	11 0		::		::	0	2	0	ŏ	2 0	June	1869
512 West Wheal Frances, t, Illogan		15 0	**		50 52			10	0	1 1	0 0	April	1869
400 W. Wheal Seton, c, Cambornet.	47	0 0			175 185		633	0	0	5	0 0	June	1869
512 Wheal Basset, c, Illogant	5	2 6	*****				632	10	0	1	0 0	June	1868
1024 Wheal Friendship, c, Tavistock.	20	0 0	_			••	300	10		0 1	0 0	Nov.	1866
512 Wheal Jane, 8-l, Kea		15 0	45	••	497 E	••	24	10	0	1 1	0 0	May	1869
4295 Wheal Kitty, t, St. Agnes	8	4 6	5	••	434 5	••	10	19	0	0 1	0 0	May	1869
1024 Wheal Kitty, t, Uny Lelantt		10 6	16	••	1414 18	••	68	10	0	0 1	50	June	1869
1024 Wheal Mary Ann, I, Menheniott	8	0 0		**	141/2 15	**	0	5	0	0	5 0	May	1869
1000 Wh. Mary Hutchins, Plymp., t	70	12 6		**		**		13	01	2 1	0 0	May	1869
80 Wheal Owles, t, St. Just: 396 Wheal Seton, t, c, Camborne		10 0	50		40 50	::	254	15	0	2	0 0	Feb.	1868
3000 Whitewell Lead, Clitheroe*	0	50					1	0	0	0 1	0 0	Dec.	1867
			* *				40						1869
7000 Wicklow, c, i, Wicklow	2	10 0	10		93/4 10		49	0	0	U	D U	Mar.	2000

FOREIGN DIVIDEND MINES.

95000	Alamillos, I, Spain*f	2	0	0	134	114 134	 0 66 0 20Mar. 1869
#2000	Alamillos, t, Spain	7		6			 0 1 6 0 0 6 Aug. 1868
20000	Australian,c, South Australia†‡	-		0			
15000	Cape Copper Mining*†	4					 3 17 6 0 15 0Nov. 1868
30000	CentralAmerican Association*†	1	10	0			
10000	Copiapo Mining Co., Chilitt	16	10	0	21/2	11/2 21/2	 0 4 0 0 4 0 April 1869
10000	Do To the North del Roystt	0	14	0		41/4 41/2	 1 3 3 '0 3 0. May 1869
76162	Don Pedro North del Rey***			0		-/4 -/2	 0 0 9. Feb. 1869
70000	English and Australian, ct	-				0.017	
95000	Fortuna, I. Spain*t	2		0	21/2	2 21/2	 1 14 10. 0 3 0 Mar. 1869
40000	Gen.MiningAssoc., NovaScotiat	20	0	0			 23 10 0 0 15 0 June 1867
10000	Gonnesa, I, Sardinia*	5	0	0			 10 per cent Aug. 1868
10000	Gonness, t. Saturda Austratt	1		0	3/8	1/4 3/8	 0 1 10. 0 0 6 Nov. 1868
68000	Kapunda Mining Co., Austratt	3		0		21/2 3	 11 18 4 0 8 4 Mar. 1869
15000	Linares, t, Spain*t	0			0		
50000	Panulcillo, c, Chill*f	- 3		0	3/4	14 1/2	 10 per cent Yearly.
6000	Peel River Land and Mineral*	100	0	0	-		
10000	Pontgibaud, s-l, Francet	20	0	0	1216 1	11/6 121/6	 5 6 2 0 19 7 Dec. 1868
10000	Pontkiband, a-c, France,	1		0		1% 134	 1 3 6 0 1 6 Jan. 1869
100000	Port Phillip, g, Clunes*†	- 4					10 nov cout
120000	Scottish Australian Min. Co.t.	- 1		0		34 1	 10 per cent Nov. 1868
11000	St. John del Rey, Brazil*†	15	0	0	17	18	 81 10 0 4 5 0 Dec. 1867
4000	Swedish Sulphur Ore*	2	10	0			 71/2 per cent Dec. 1868
1000	Vancouver Coal Mining*†‡	6	0	0	8	71/2 8	 2 14 6 0 12 0 May 1869
18500	Vancouver coar mining 14					. / .	
80000	Victoria (London) [25000 £1 pd	, 20	000	148.	au. ba.l		 0 9 7 0 0 7July 1868
40000	West Canada Mining Co. *	- 1	U	0			 0 19 6 0 2 6 May 1866

NON-DIVIDEND FOREIGN MINES.

ł	Shares	Mines.	Pal	a.	La	st Pr. Bus. don	e. Last	Call.	
I	BOOOD	Anglo-Argentine, g, s, Argentine Republic	1	0 0		11/4 1 11/4			
I	100000	Angio-Brazilian, g*†	0 1	1 0		5/8 1/2 3/8	Nov.	1886	ı
ı	100000	Anglo-Italian, g*t		5 0		/4 /6	Jan.		
ı	12500	Angio-Italian, g-1	1	0 0		- ::			
ı	20000	Australian United, g	ŝ	0 0	••		Mar.	1909	
ı	2464	Burra Burra, c, South Australia!	0	0 0					1
ı	20000	Capula, s, Moxico*†					Jan.		
ı	00000	Chantalos a s Nicaraguatt				11/211/4 11/4			ľ
Į	10000	Cobre Copper Company, c. Cubati					Jan.	1868	
ı	1 50000	El Chico Silver Mining and Reduction Company	5	0 0			Nov.	1866	
l	40000	Fortune Copper Mining Co. of Western Australia	2	0 0		11/4	Fully	pd.	
ı	*0000	Frontino and Bolivia, g, New Granada*†	1 1			1414 138	May	1868	
١	150000	General Brazilian*		10 0		3/8 · · 3/8			
	100000	Javaii, g, Nicaragua	2	0 0			Jan.		
	20000	Lusitanian (Portugal) 1	2 1	5 0		14 16 3/4		1866	
	7927	Lusitaman (Portugal) +	1	0 0		- 40 /8 /8		1868	
	83640	Mariquita, g, s, New Granada	6 1	0 0			Dec.	1867	
	12500	Nerbudda Coal and Iron, India*†	4	4 0				1807	
	\$1000	New Quebrada, c, Venezuela*†		17 6					
	80000	Pestarena United, g, Italy*†	*	11.0		1%1% 1%			ı
	10178	Rhonish Consolidated, / 16000 & pu., 4176 & 108. pu.				***	May		
	100000	Rosen Grande, d. Brazil*T	0 1	4 0		13/8 1 11/4	June		
	15000	San Pedro del Monte, s, Mexico	4	0 0		5	Sept.		
	10000	San Roque, t, Spain	ā	0 0			Fully	pd.	
ļ	E0000	Sao Vicente, Brazil*†	0	60		1/2 1/8 1/8	Oct.	1868	
	100000	Taquaril, g, Brazil*	0	7 6		5/8 1/2 5/8	Oct.	1868	
	49174	United Mexican, s, Mexicoft*	28	5 2		3 3	May	1868	
	40114	Val Antigoria, g, Italy*	1	26					ı
	80000	Val Sassam, s, c, l, Italy*†	8	0 0			Aug.	1868	
	6000	Victor Emanuel, c, Italy*	1	0 0			Fully		
	45000	Wanthing a Couth Australiant	1	0 0		%·· 1/8 1/4	Fully		
	80000	Worthing, c, South Australia *	î	0 0		4. % 2	Fully		
		Yorke Peninsula, South Australia	9	0 0		21% 116	Fully		

NON-DIVIDEND MINES. Paid. Last Pr. Rus. done, Last Call.

Share	Mines.	4			180 E	. Dus. wor	to. Luge	cutt.
12000	Brynpostig, Montgomery, l*	1	0		_			
2000	Carn Brea. c. t. Illogani	30			13		June	
2000	Chiverton 7. Perranzabuloe	11			334	814 81/6	Nov.	
3000	Chiverton Moor, I, Perranzabuloe	7		6	314	234 3	Feb.	
3880	Clifford Amalgamated, c, Gwennap:	53		0		**	Oct.	
19800	Drake Walls, t, Calstockt					% %	Jan.	
519	East Basset, c, Redrutht		0			46	Nov.	
6000	East Carn Brea, c, Redruth!	4	18				April	
8000	East Grenville, c, Camborne	4	5	0	41/2		May	
6144	Gonamena, c, St. Cleer		16				June	
5000	Great North Downs, c, Redruth	6	13	0	21/4		Feb.	1867
19500	Great North Laxey (Isle of Man)*	1	0 (1%	1 11/8		
5149	Great South Tolgus, c, Redruth	1	16	6	-		June	
1706	Great Wheal Fortune, t, Breage	31	7	4	_		Mar.	1868
1130	Hingston Down, c, Calstockt	5	12	0	-		Dec.	
400	New Wheal Seton, c, Camborne	65	5	0	70	60 70	April	
9457	North Downs, c, Redruth	5	12 1	10	-		Mar.	1869
0901	North Roskear, c, Camborne	61	19 (7	46	Jan.	1869
8096	North Treskerby, c, St. Agnes		13		3/4	1/8 3/4	Feb.	1869
10000	Ohio Crown Lead, Isle of Man	12	0	0				
1004	Rose and Chiverton United, I, Newlyn	7		0	-		May	1869
	Rosewall Hill & Ransom, tt	4	0		116	11/4 11/4		
	South Condurrow, t, c, Camborne	4	15		-/1	1% 1%	June	1869
	South Merilyn, l. Flint	î	0 (0		11/8 11/4		
	Stray Park, c, t, Cambornet		19				April	1869
	Van Consols, Llanidloes, l*	9	10	0	814	21/8 3		
20000	Victoria (South Devon), e, Ashburton*	0	10	0	1	1 11/4	May	
20000	West Basset, c, Illoganti	0	0 1				May	1868
	West Caradon & St. Cleer	27	0.6	0	51/6	31/6 41/2	Mar.	1869
6000	Wheal Agar, c, Illogan	7	18		-/-		Millie	1000
	Wheal Bailer, c, Redruth 12	30	10	0	14	11 13	May	
		10	10	0	25%	21/4 21/4	Dec.	1868
1040	Whea Grenville, c, Cambornet	10	17	0	7		Mar.	
1030	Wheal Trelawny, s-l, Liskeardt	10	3.4		93/	214 234	Oct.	1868

	NON-DIVIDEND MINI	s.
Share 4000	s. Mines. Paid. Last 1 Rallacorkish, Lof Man. Let., 4 10 0	Pr. Bus. done.
4000 4000 5000	BedfordConsols,c,Tavistock 3 1 6 Bedford United,c,Tavist.* 3 1 8 Blue Hills, t, c, St. Agnes 0 5 0	2 1% 2
1248 5000	Bottle Hill, t. Plympton 1 14 6	- ::
5000 1200 7500	Bryn Gwlog, I, Flint 0 18 0 Bryn Gwyn, I, Mold*‡ 9 0 0 Brynystwith, I* 2 0 0	= ::
1000 6000	Bwadrain Cons., s-l. Cardig. 3 5 0	4% 4 4%
1000	Caldbeck Fells, I, Cumberld. 1 15 0 Cape Cornwall, t, c* [8000 £2 10s. pd., 3000	% 25s. pd.]
5000 914 6000		21/8
3000	Colonite & Callington Un. c. 1 11 0	%·· %
2048 256 50000	Condurrow, c, t, Cambornet 76 10 0 Connorree, c, sul, Wicklow*. 1 0 0	1/8: 1/8
983 1000 1055	Copper Hill, c, Redruth: 12 10 0 Cornwall Hematite* 10 0 0 Craddock Moor, c, St. Cleer: 14 18 0	111%
6000 300	Cuddra, t, St. Austell 5 10 0	::
1000 4000 5000	Deep Level, s-l, Holywell 30 0 0 Devon & Cornwall United 5 18 0 Dolwen, l, Cardiganshire 0 10 0	1 11/6
1000 2926	East Basset and Grylls, t 3 5 0	16 . 56 36
4000 4000 6000	East Chiverton, l, Perranz. 3 7 9 E. Gunnislake & S. Bed. c 11 4 0 East Laxey, l, Isle of Man. 3 0 0	1%
4096 8640	E. New Wh. Lovell, t, Wend. 0 5 0 East Providence, t, Lelant 7 3 3	- ::
5000 6000	East Providence, t, Leiant. 7 3 3 16 E. Rosewarne, c, t, Gwinear 3 1 6 East Snaefell, t, I, of Man*. 3 0 0 East Steno, C, Camborne. 0 19 6 East Trumpet, c, t. 115 0 East Wheal Reeth. 0 2 0 Ebury Lead Min. Co., Filint* 2 10 0 Exmouth & J. Christow. 0 3 6 Exmouth & J. Christow. 0 3 6	- :: - :: % 1%
5610 2000 6000	East Trumpet, c , t	14.1
6000 5000 6000	Ebury Lead Min. Co., Flint* 2 10 0 Exmouth, s-l, Christow 0 3 6	= ::
10000 5700	Glasgow Caradon, $c*$ [30,000 £1 p., 10,000 Goginan, Cardigan, $l.$ 12 10 0	15s.p.]
$\frac{2866}{6000}$	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	- 1/2 1
4800 15000 4096	Great Rhosesmor, l 5 0 0 Great Royalton, t 0 7 6	1% 1 1%
6000 6000	Gt.S. Chiverton, s- l , Perranz 2 0 0 Great Western, t 2 0 0 Gt. Wh. Baddern, t , Devoran 7 17 6	21/4::
3313 119 1024	Great Work, t, Germoe 100 0 0 Gunnislake (Clitters'), t, c 4 19 0	:
6000 5000	Gwydyr Park, l, Llanrwst 1 12 0 Ironmasters' Company* 10 0 0 1	
10000 1019 1000	Leeds and St. Aubyn, t, c 19 13 4 Llywernog, I. Cardiganshire 13 0 0	78
5120 6000	Lovell Consols, Wendron, t. 0 6 0 Maudlin, c, Lostwithiel 4 7 0	11/8
6000 4662 640	minera Chich, c [2000 at p., 2102 at	
1024 6000	Nangiles, t , c , Kea 34 12 0 19 New Brynpostig, l , Llanid 1 10 0	01/4 15/8
1500 6000 6250	New Chiverton, l, Perranz 1 4 6 New Clifford, c., Gwennap*. 3 5 0 N. Crow Hill, l, St. Stephen. 3 11 0	::
6514	New E. Russell, c, Tavistock 0 12 6 New Gt. Cons., c, Tavistock* 1 0 0	:::
6400 3425 6000	New Pembroke, St. Blaz. t, c 1 17 0 New Treleigh	41/6
4096	New Treleigh 6 10 0 New Westminster, l* 6 10 0 New Wh. Lovell, t, Wendron 1 19 6 N. Wh. Prosper, t, St. Hilary 0 2 6 N. Wh. Towan, c, t, Wendron 1 10 0 No. Dolcoath, c, Camborne. 4 3 0	1½1¾ 1% 1½1¾ 1%
2000 5000 1361		: ::
4000	North Jane, t , s - t , Kenwyn 3 7 6 No. Phœnix, e , Linkinhorne 4 11 0 – North Pool, e , Illogan 6 13 6	% · ½ %
3240 1000 6000	North Retallack 2 0 0 North Wheal Basset, c, t† 5 0 0	3
8000 5610	N. Wh. Chiverton, <i>l</i> , Perran. 5 0 0 N. Wh. Crofty, <i>c</i> , Illogan† 3 11 3 Okel Tor, <i>c</i> , Calstock 2 7 4	34 34 %
12288 8000 6400	Old Gunnislake, c, Calstock 3 9 6 Par Consols, c, St. Blazey† 2 2 14 6	:::
256	Pedu-an-drea, t, Redruth 8 1 6 Pendarves United 50 0 0 3 Pendeen Consols, c, St. Just 7 17 0	7 30 31
\$000 4000 2177	Penhale United, s-l* 4 10 0 Penhale Wh. Vor, t, c, Breage 7 2 6	:::
6000 3000	Perran Wheal Vyvyan 0 10 0 Pickard's Down, s-l, Brnstpl. 0 1 6 Polberro, t, St. Agnes 15 0 0	% % %
2000	Polbreen	36
$6000 \\ 4620$	Redmoor, c. t. Callington 2 1 0	:
6000 6000 2 000	Roscliff and Tolcarne 1*	: ::
0000 20500 512	Royalton, t, St. Columb I I V	1% 1 1%
\$000 3000	Snaefell, I, Isle of Man*	16 . 16 16
5000 6000 3395	So. Gt. Work, t, c, St. Hilary 0 2 6 South Grenville, c 0 2 0	14 1 114
400 673	So. Wh. Seton, c, Camborne 90 13 0 St. Ives Wh. Allen, t, St. Ives 18 18 7	
300	St. Just Amalg., t,* [6000 £3 10s. pd.,277 Steeple Aston Iron Ore Co 10 0 0 Stiperstones, l, Salop* 6 0 0	1 £2 5s. pd.]
6000 3500	TamarValley, s-l, Beeralston 0 18 0 Tin Hill, t, St. Austell 1 12 0	:::
6000 548	Tin Valley, St. Neot 1 0 0 $-$ Trelyon Consols, t , St. Ives. 16 10 0	51/2 5 51/2
4096 1943	Trewetha, s-l, Menheniot 10 19 6 Treworlis, t, Wendron 11 15 4	::
70 1000 7664	Treasvean and Trethurrup. 16 11 0 2 Treweths, s.l. Menhenot. 10 19 6 Treworlis, s.l. Mendron 11 15 4 Trygwyn, s.l. Cardigan 25 0 0 Vaughan, s.l. Cardigan 25 0 0 Vigra and Clogau, c, Dolg. 5 0 0 0 10 0	
1000	West Cwm Erfin, s-l 0 10 0 West Damsel, c, Gwennap 38 10 0	: ::
2800 2000 2800	W. Drake Walls, c, Calstock 0 8 6 W. Maria & Fortes., c, Lam 3 13 0 West Prince of Wales, c 0 11 0	%
838 3535	West St. Ives. t. c. St. Ives. 0 6 0	4
512 5000	West Tolgus, c, Redruth 62 0 0 38 West Wh. Kitty, t, St. Agnes 3 12 0 W. Wh. Tremayne, St. Erth 0 14 0	
4096 741 5868	Wheal Basset and Grylis, t 7 18 6 Wheal Crebor, c, Tavistock 2 8 6	78
811 4000	Wh. Emily Henrietta, c, Illo. 20 15 0 — Wh. Emma, c, Buckfastleigh 3 19 0 — Wheal Falmouth & Sperries 9 1 0 —	:::
1560 3700 896	Wheal Ida, s-l, St. Ive 1 9 6 Wh. Margaret, t, Uny Le. 2 13 17 6	%: 57
728 6000	Wheal Margery, St. Ives, t, c 27 4 0 Wheal Mary Florence, c* 2 10 0 Wheal Rose, c, Scorrier 1 10 0	:::
2000 4663 1920	Wheal Sparnon, c	::
1200	Wheal Trevenna, t, c* 10 0 0	

	IRON AND COAL COM	IPANIES	S.
100	Bolckow, Vaughan, and Co. * 30	0 0	39 40
100	Brown, John, and Co.* 70	0 0	40 42
	Charles Cammell and Co.* 80		
10	Consett Iron Company* 7	10 0	81/6 83/4
32	Ebbw Vale Iron Co.* 27	10 0	15 /2 16
15	Hopkins, Gilkes, and Co 10	0 0	89
1216	Mersey Steel and Iron Co. * 11	10 0	3 81/4
10	Midland Iron Company* 5	0 0	12 1214
100	Parkgate Iron Company* 57	10 0	.,221/4 28
20	Patent Shaft & Axletree Co.* 10	0 0	15 15%
50	Rhymney Iron Company 50	0 0	26 27
15	Ditto. New	0 0	71/2 8
100	Sheepbridge Coal & Iron Co. \$ 50	0 0	281/2291
100	Staveley Coal and Iron Co. *. 60	0 0	90 91
100	Thames Iron Company*100	0 0	30 31
otlyn	. load . t tin : g. zinc.		

4096 Wheal Uny, t, c, Redruth. 10 14 6 .. 5% ... 10, sliver; st, slate; st, sliver-lead; t, tin; s, sliver; st, sliver; st, slate; st, sliver-lead; t, tin; s, sliver; st, sliver-lead; t, tin; s, sliver; st, sliver-lead; t, tin; s, sliver-lead; t, tin; sliver *.* Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

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